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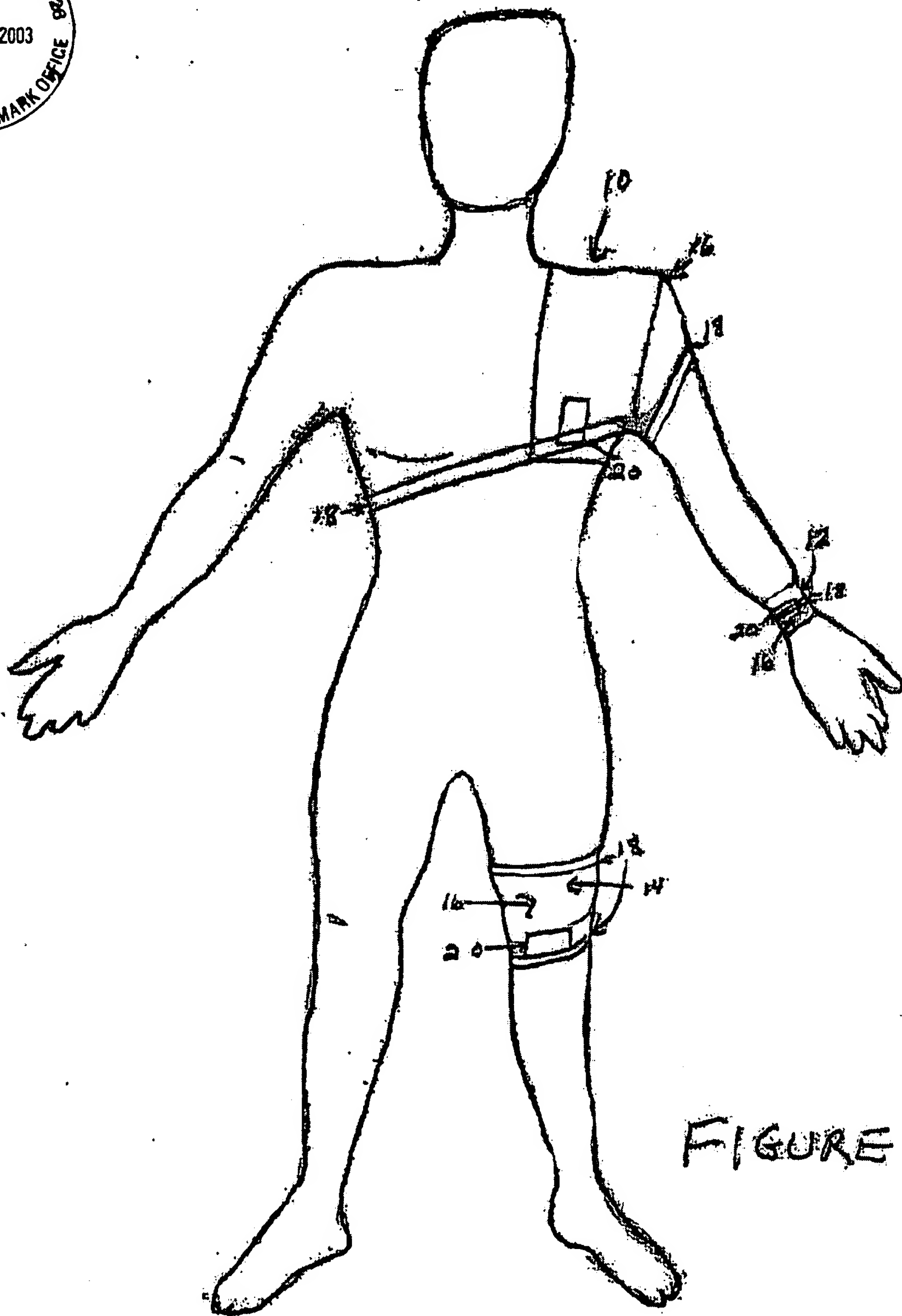


FIGURE 1

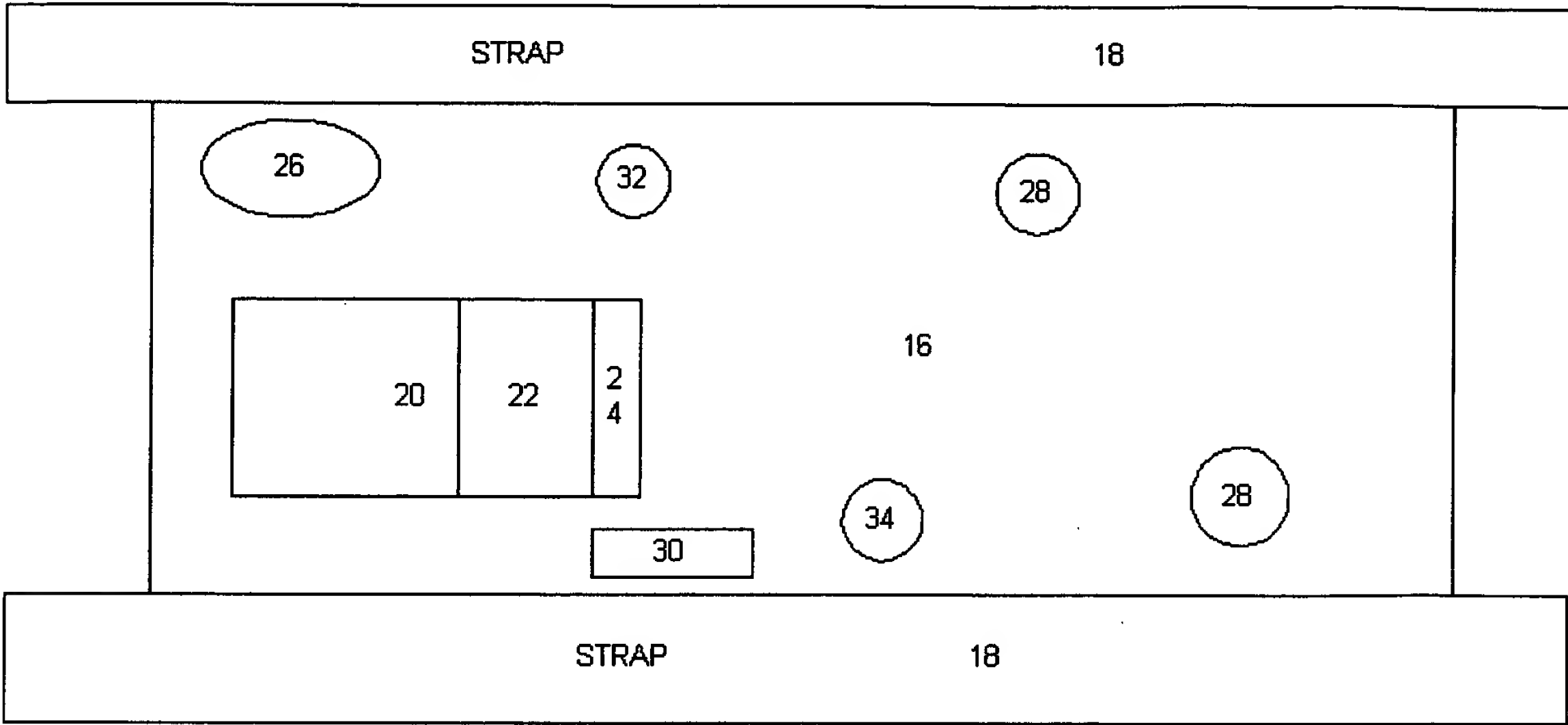


FIGURE 2 *FIG. 2*

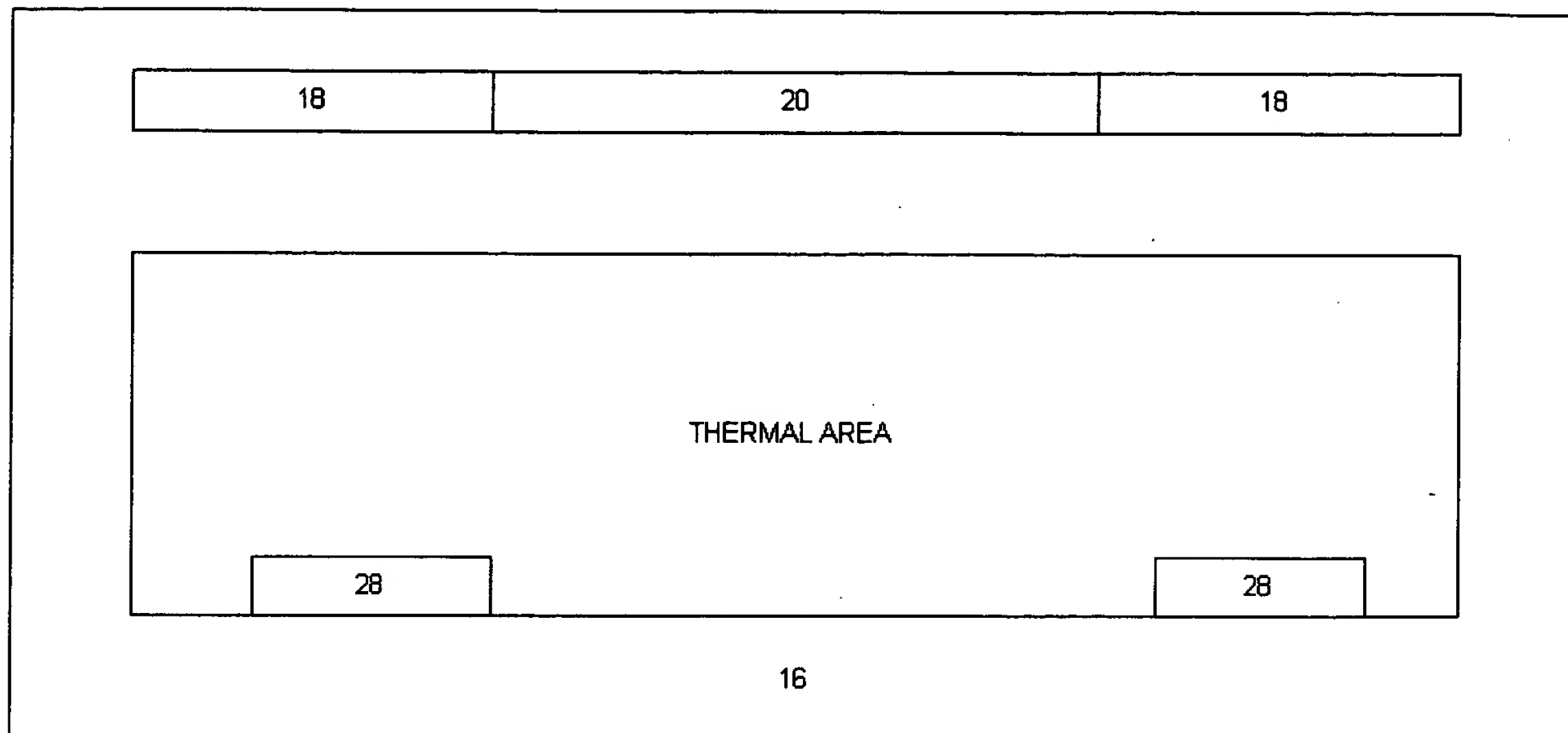
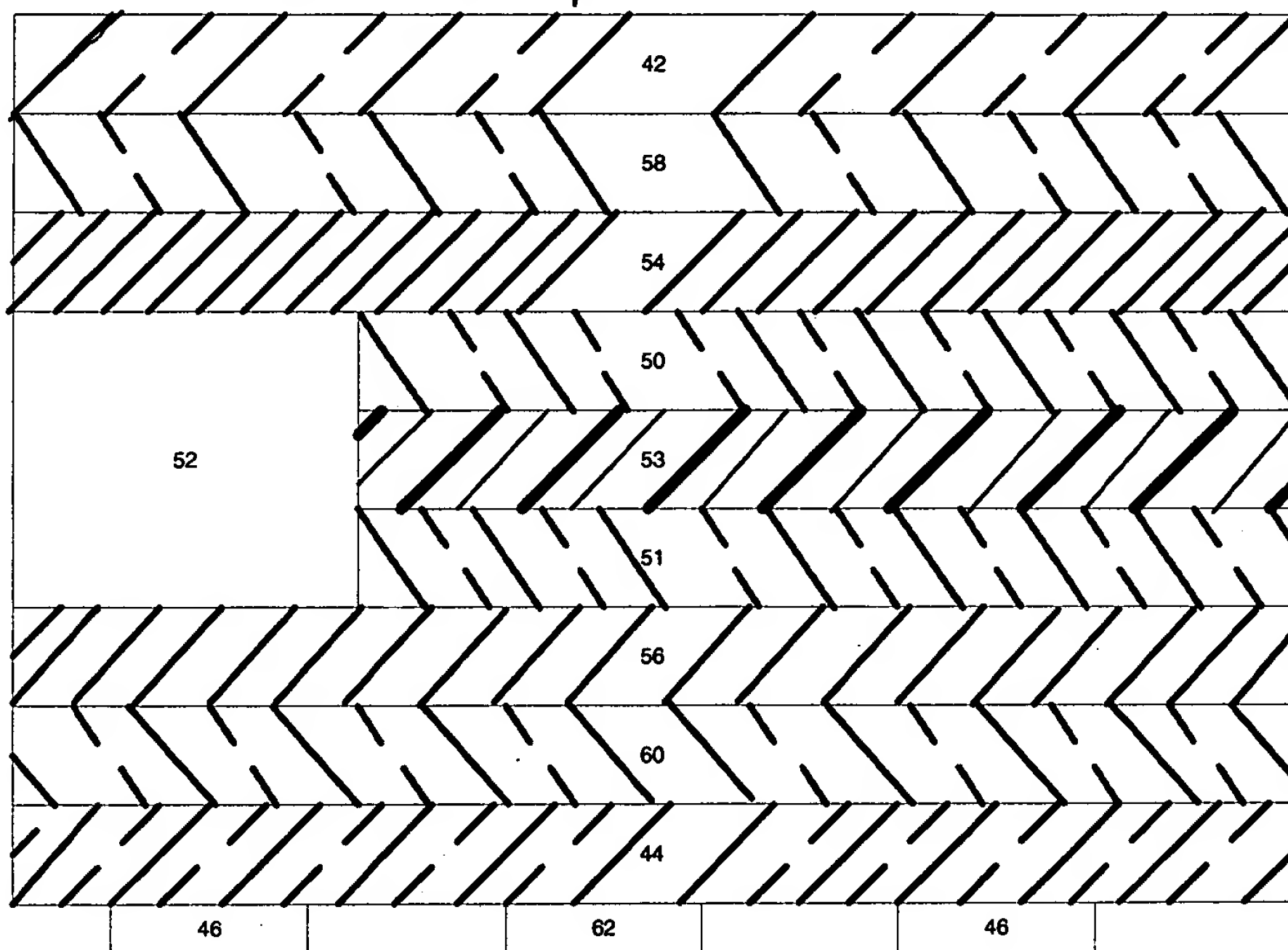


FIGURE 3 *FIG. 3*



All cross-hatching shown to be added here and in Figs 4B-4E



~~FIGURE 4A~~

Fig. 4A

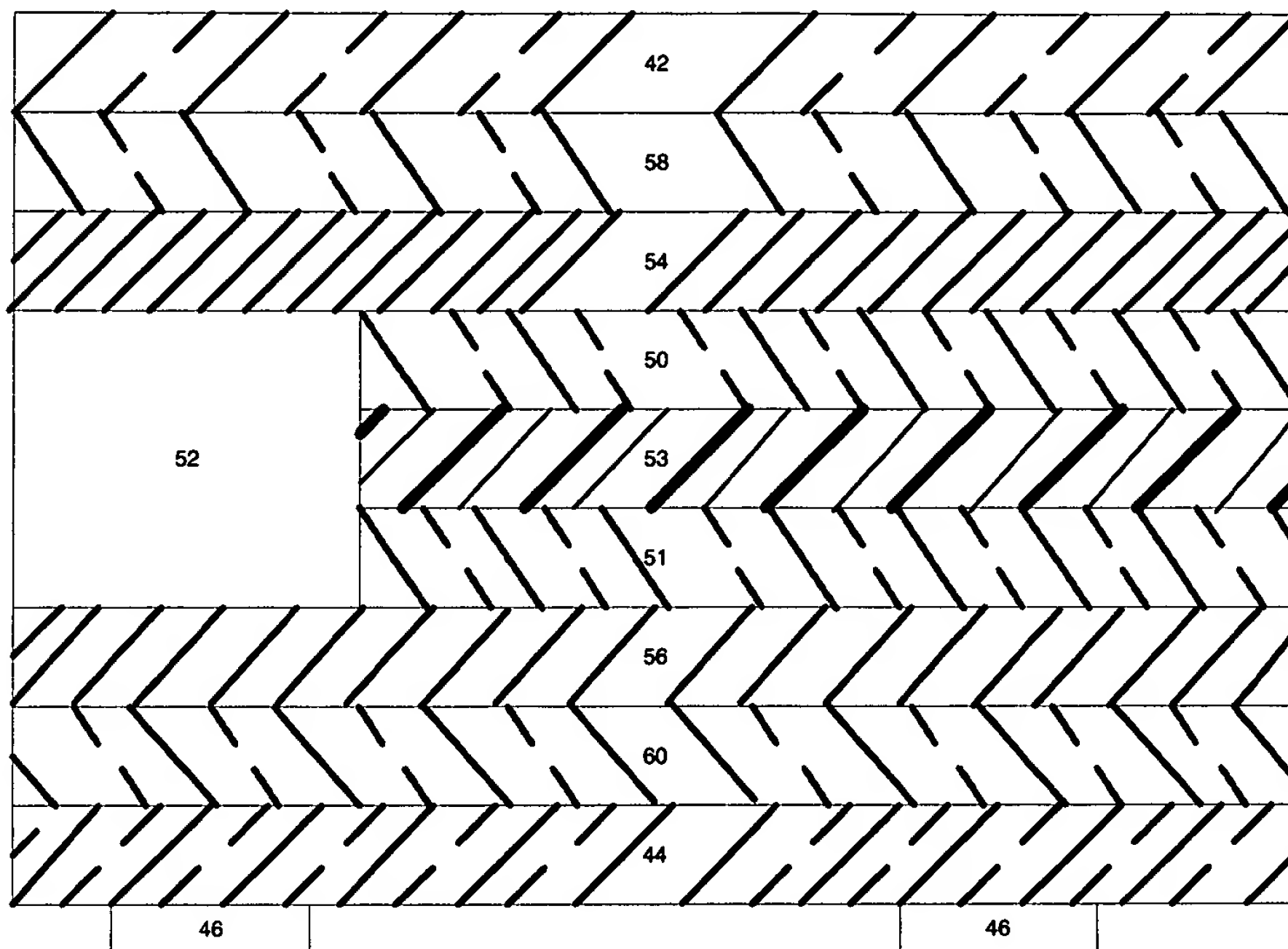


FIGURE 4B

FIG. 4B

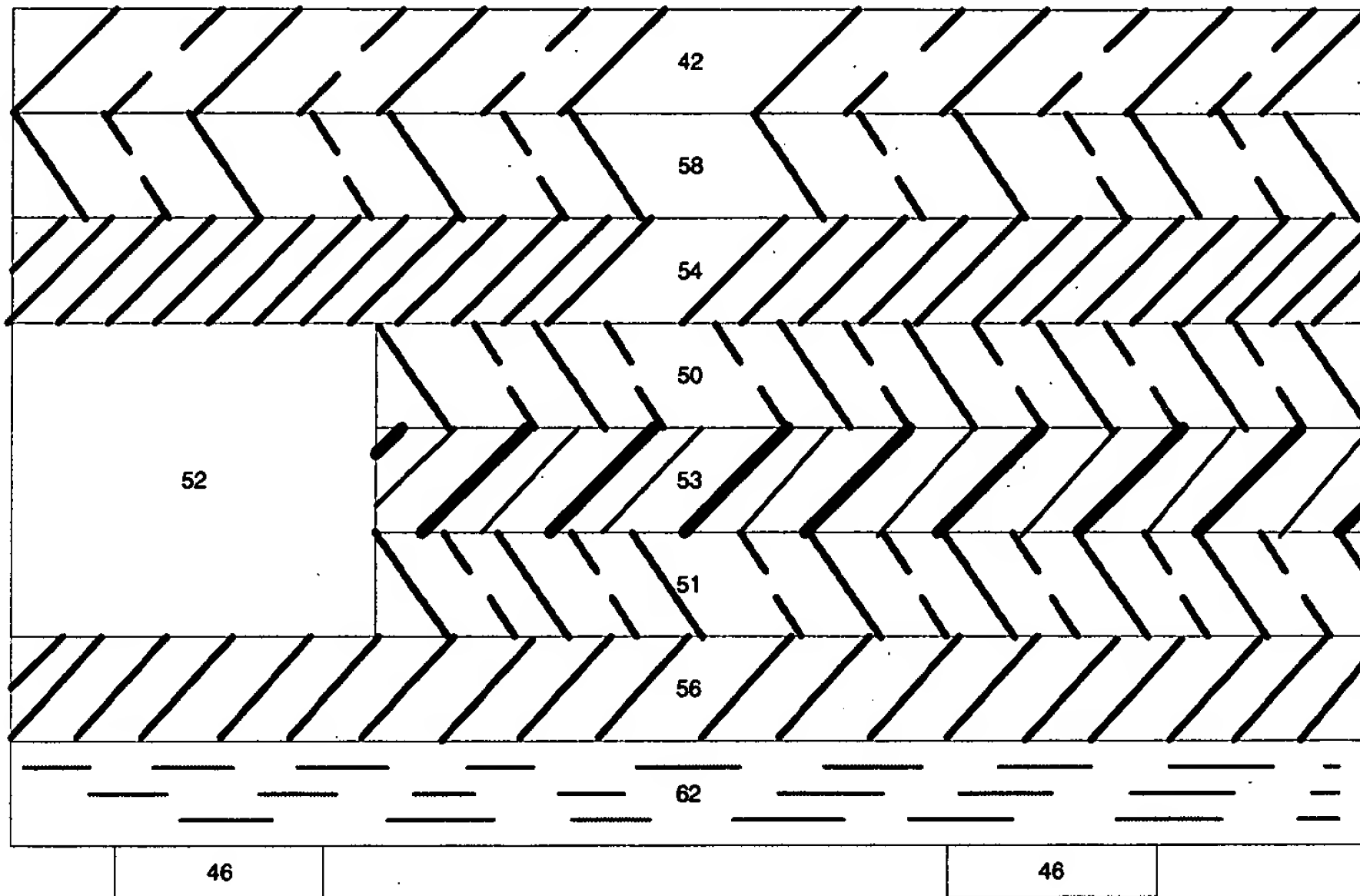


FIGURE 4C *FIG. 4C*

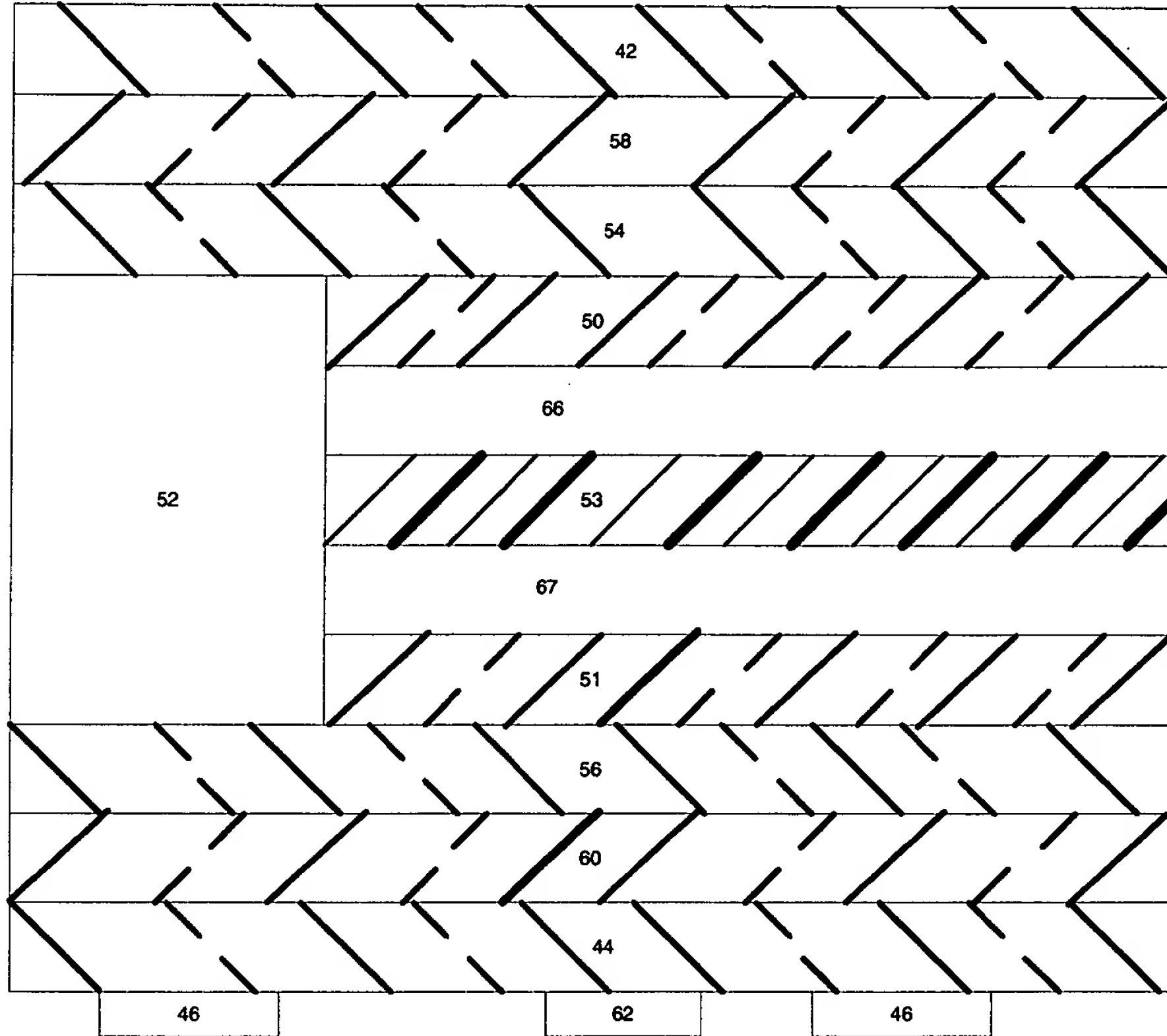


FIGURE 4D F.G. 4D

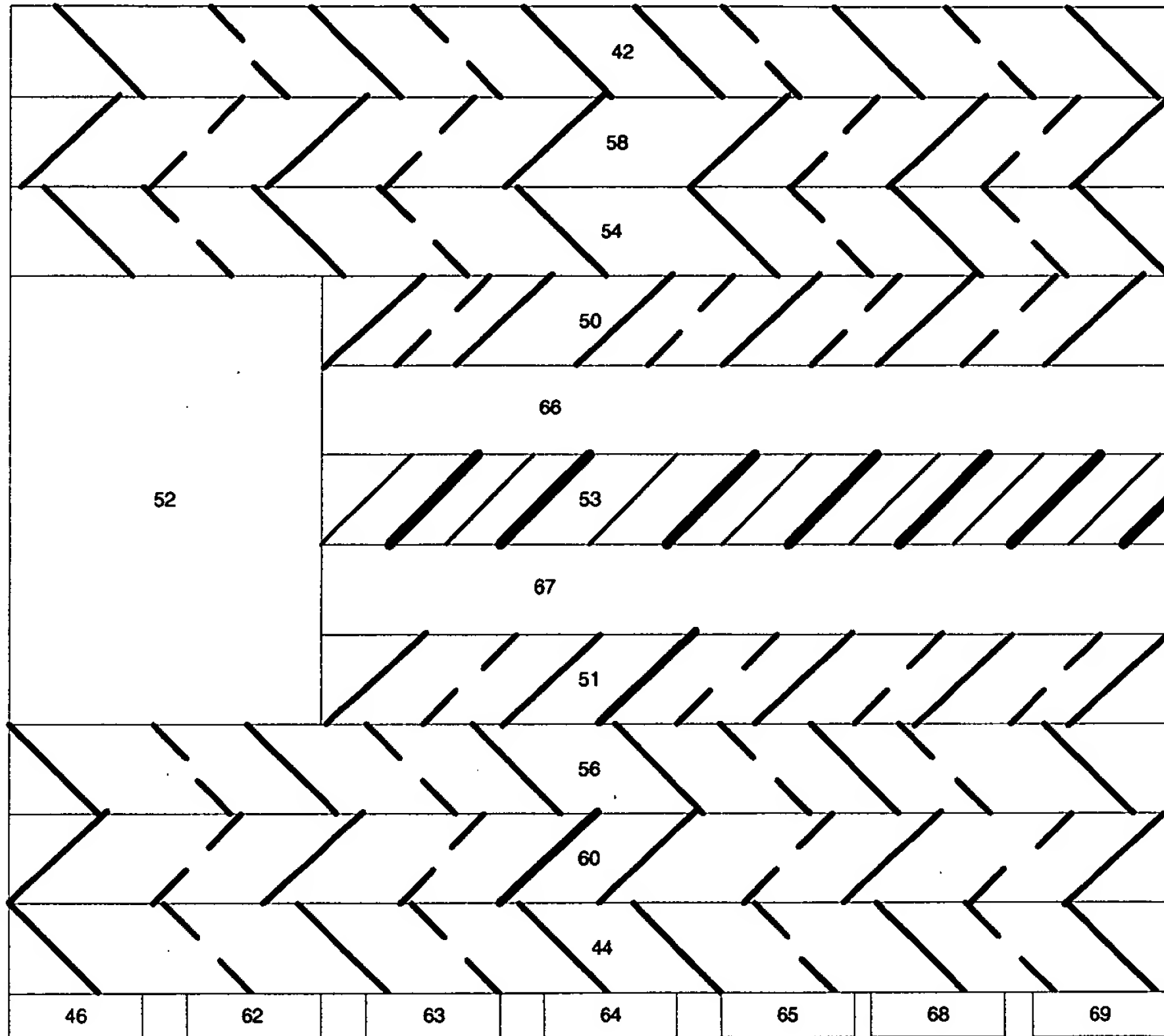


FIGURE 4E *FIG. 4E*

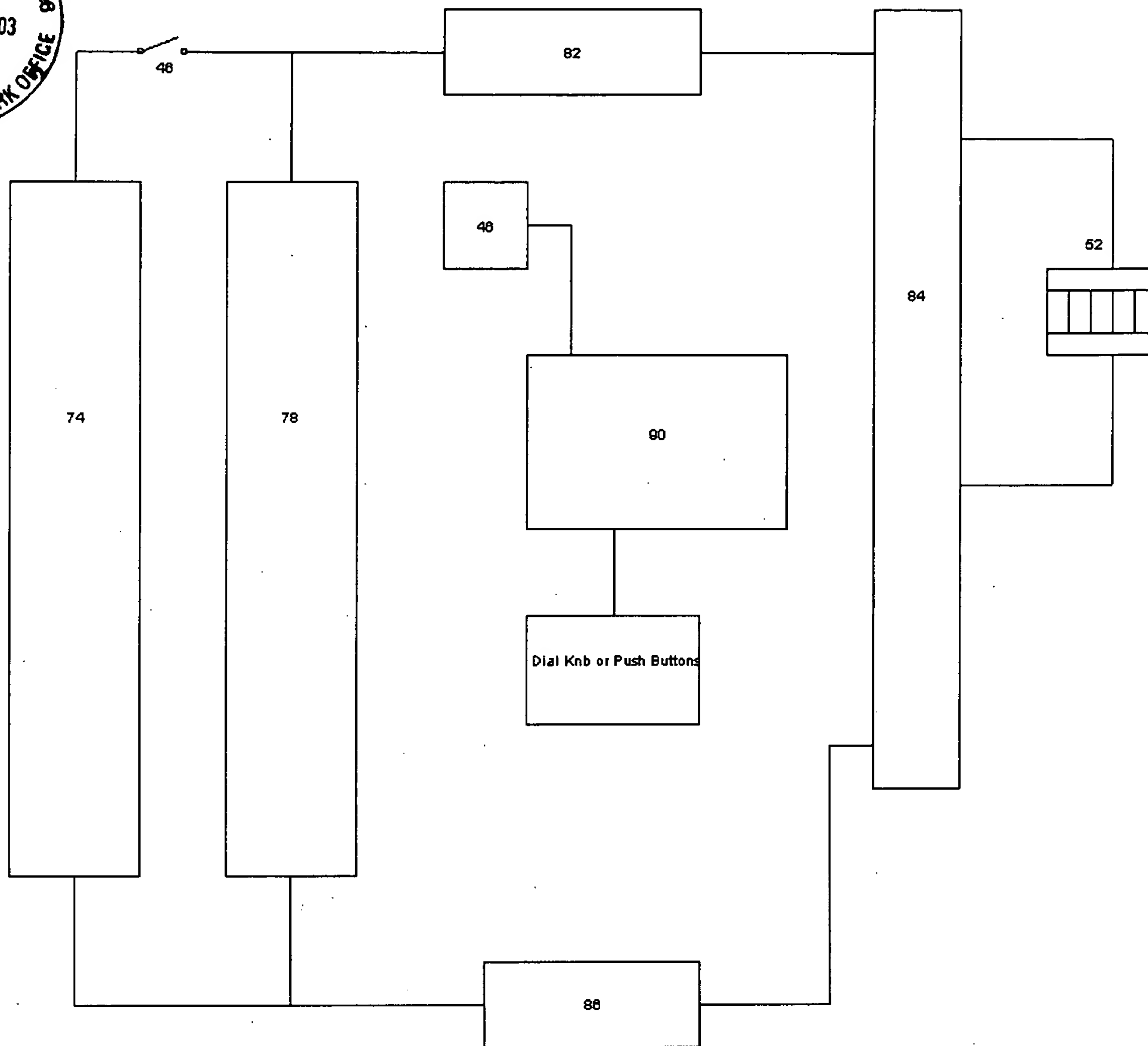


FIGURE 5 *Fig. 5*

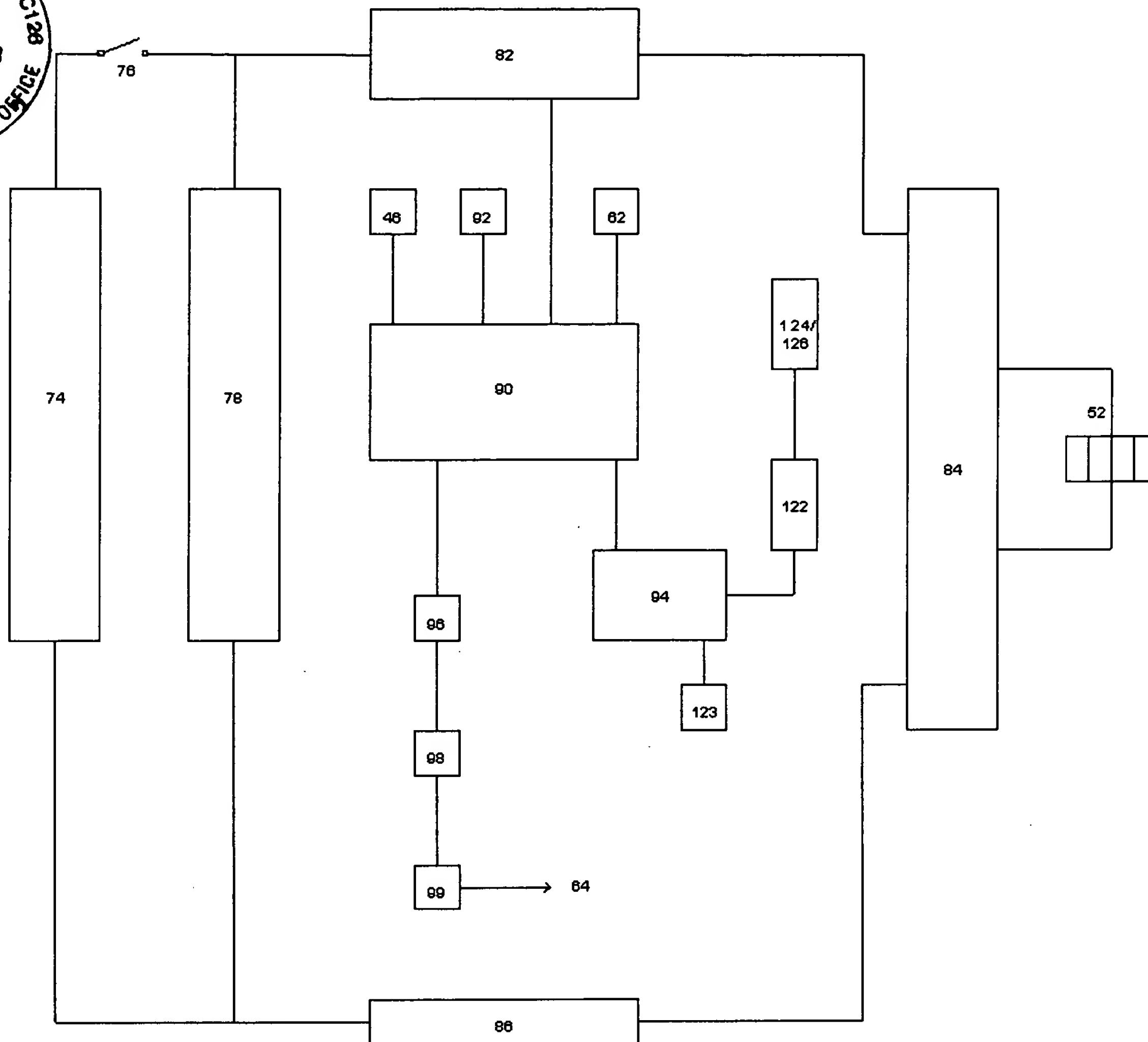
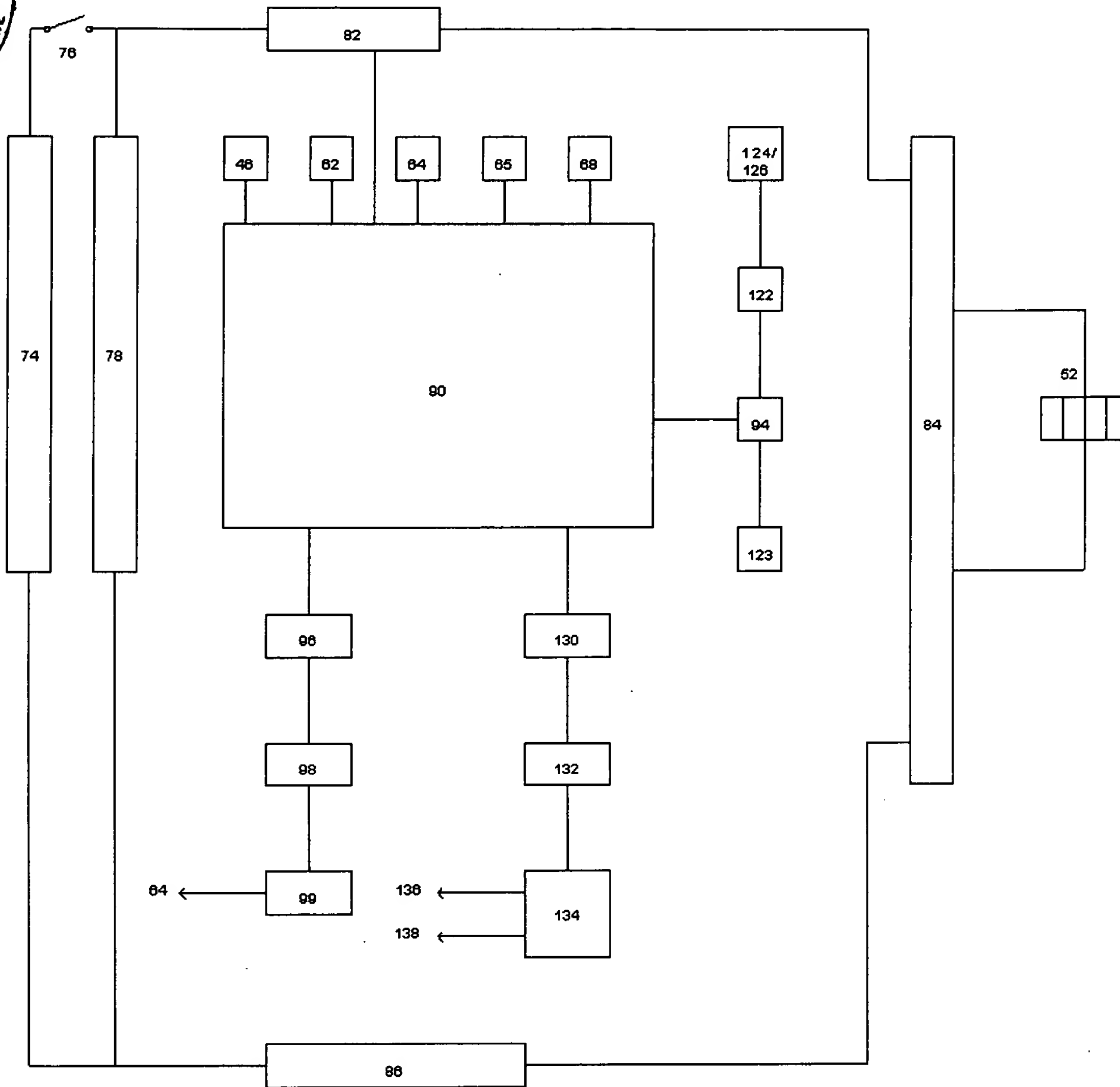
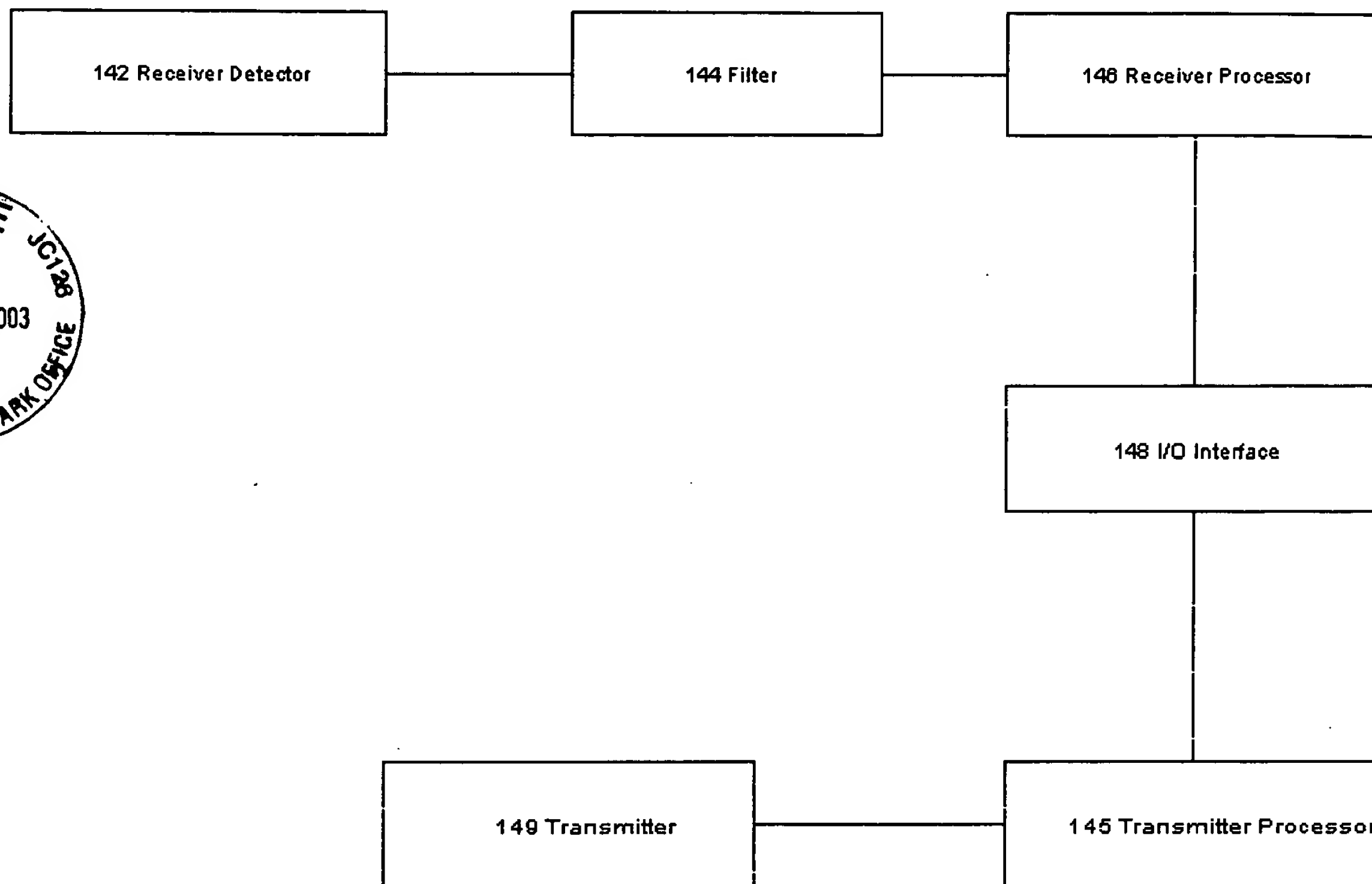


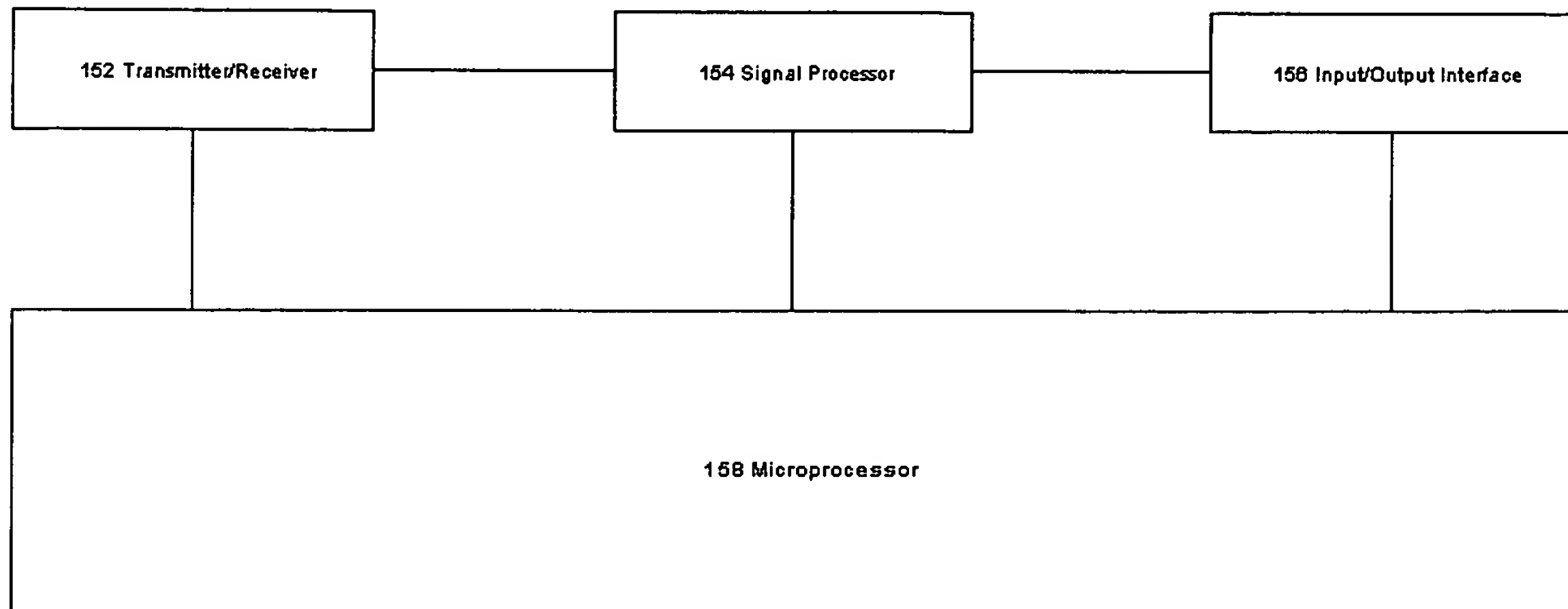
FIGURE 6- *Fig. 6*



~~FIGURE 7~~ *FIG. 7*

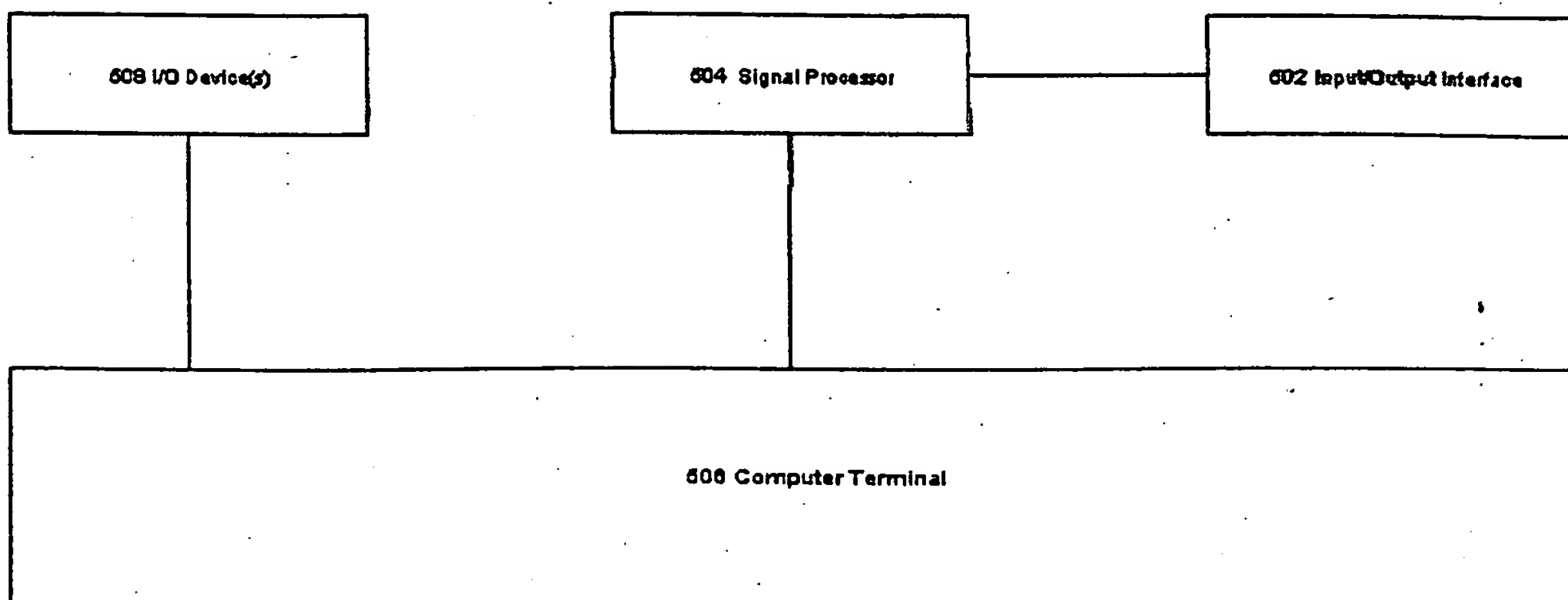


~~FIGURE 8~~ *Fig. 8*



~~FIGURE 9~~

Fig. 9



-FIGURE 10-

FIG. 10

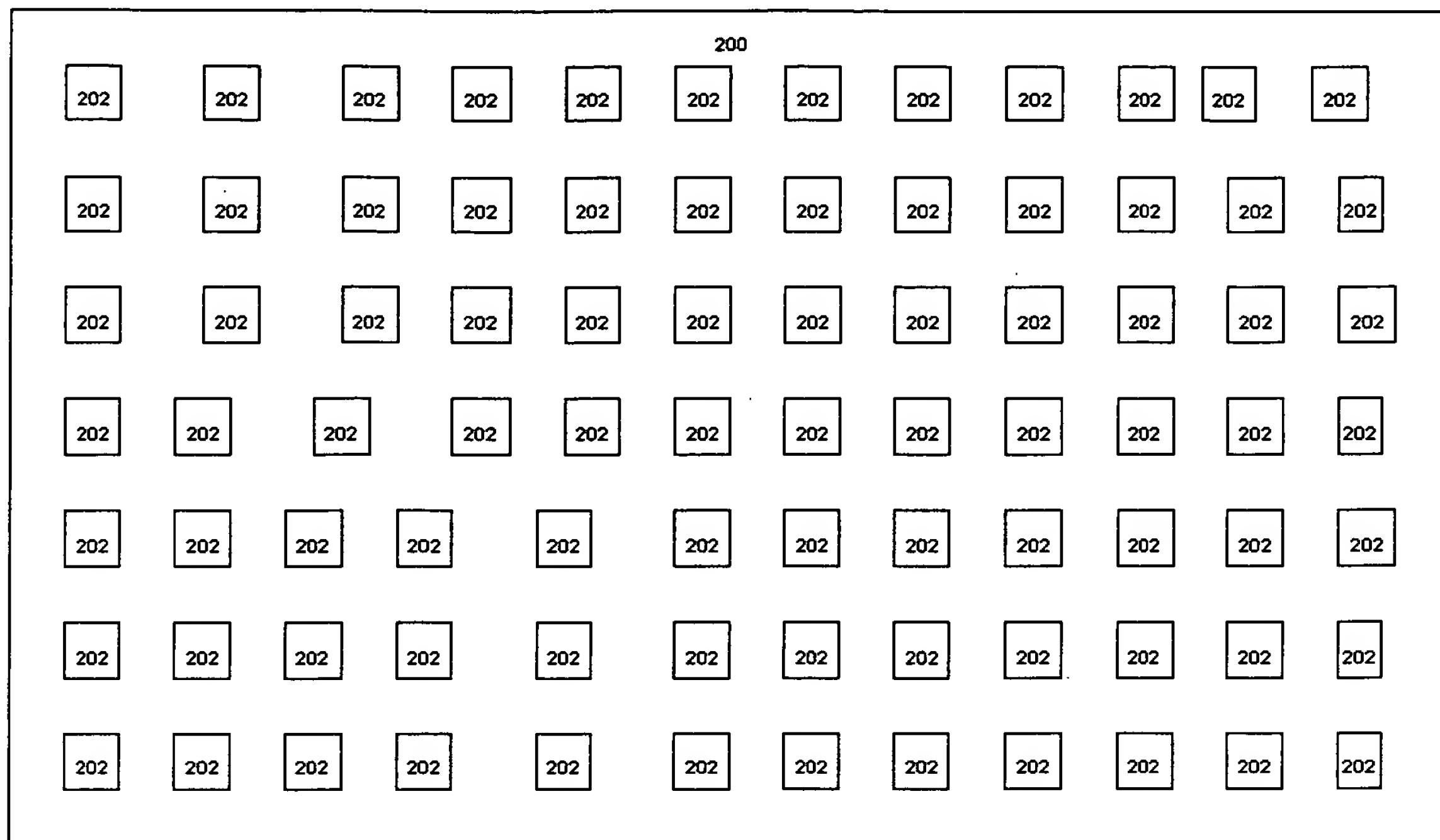
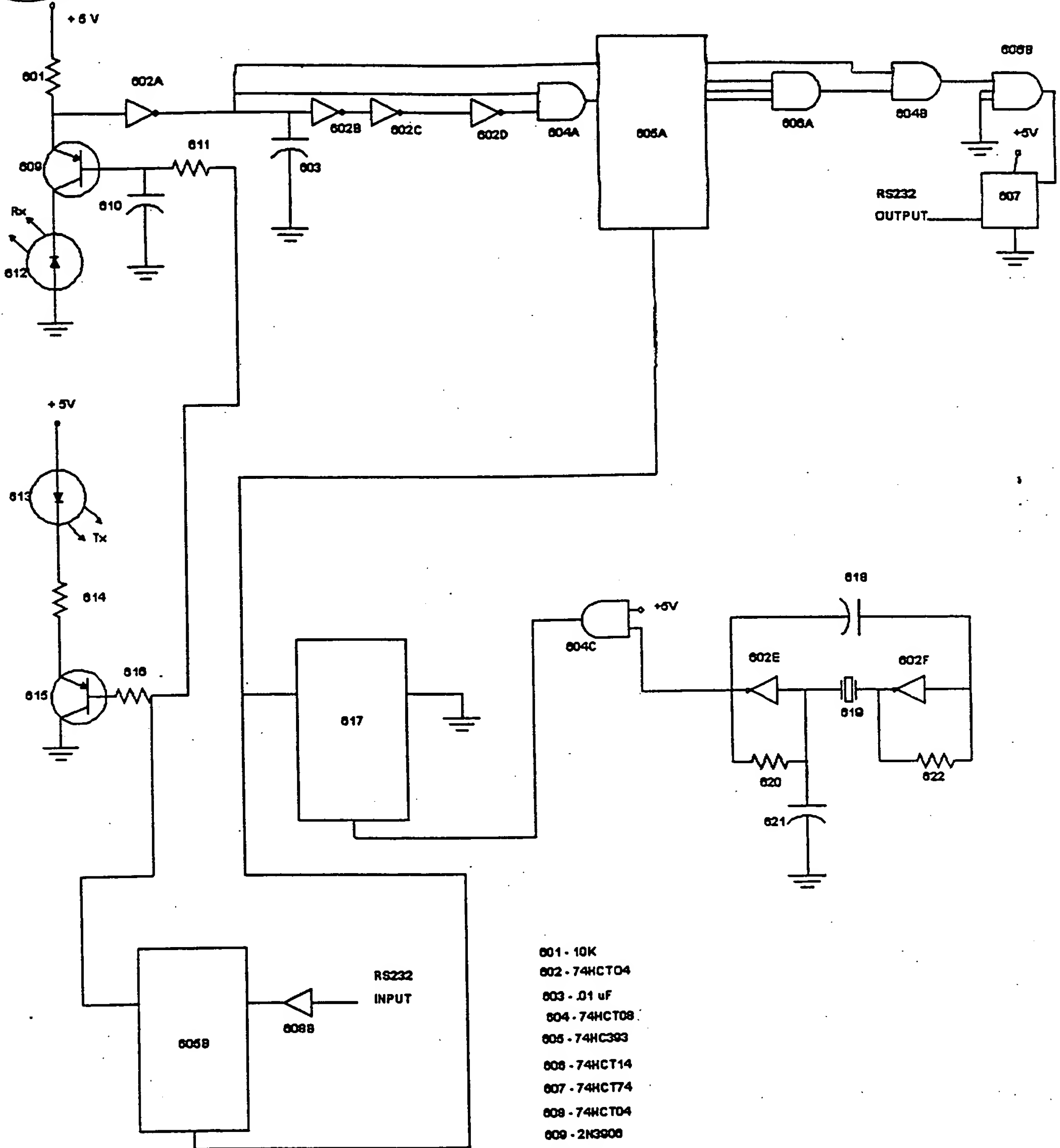


FIGURE 11 *Fig. 11*





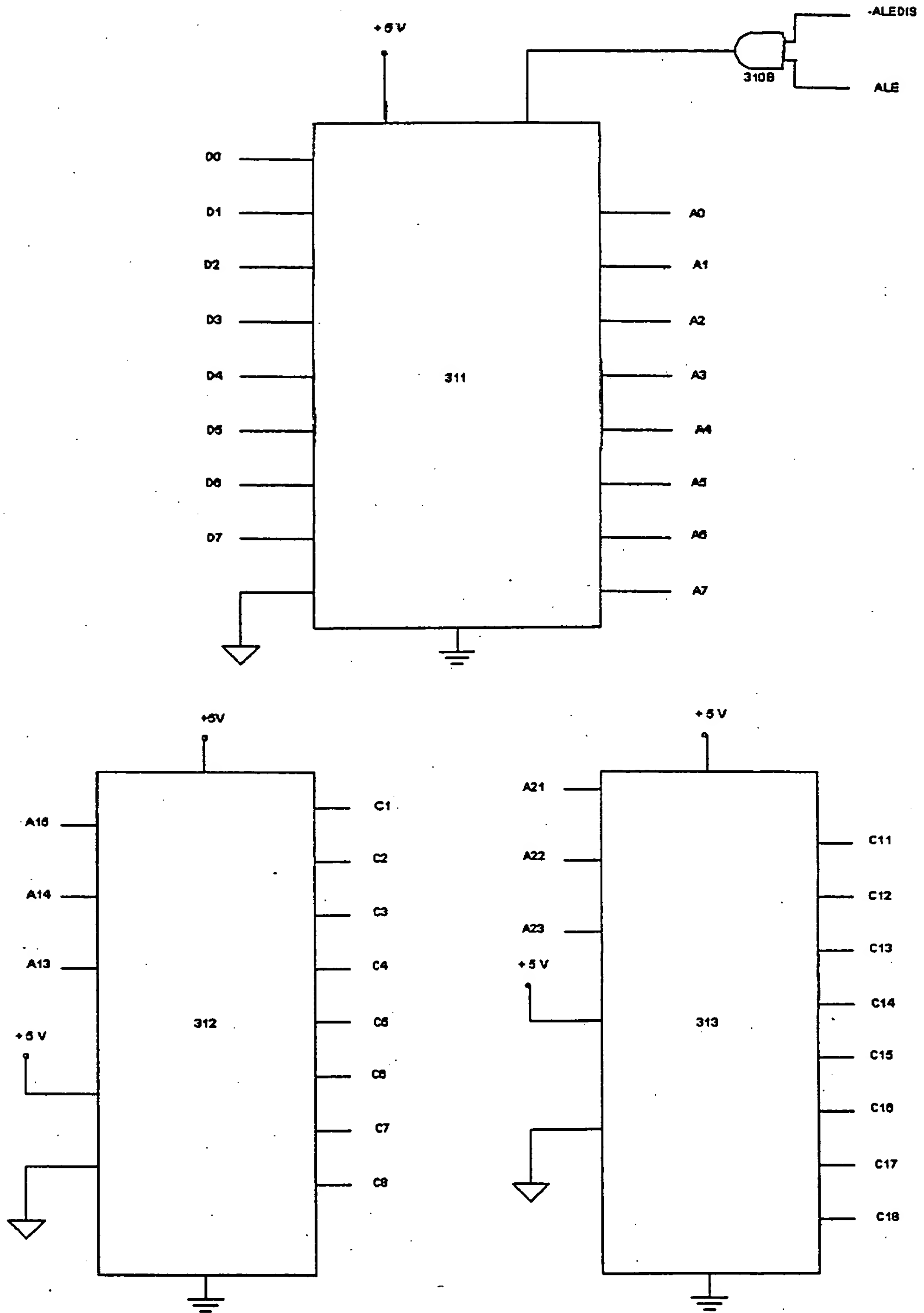
- 601 - 10K
- 602 - 74HCT04
- 603 - .01 uF
- 604 - 74HCT08
- 605 - 74HC393
- 606 - 74HCT14
- 607 - 74HCT74
- 608 - 74HCT04
- 609 - 2N3906
- 610 - .1 uF
- 611 - 1 K
- 612 - IRD300
- 613 - SLI-0308CP
- 614 - 47 K
- 615 - 2N3904
- 616 - 1 K
- 617 - 74HC393
- 618 - .0022 uF
- 619 - 2.457 MHz XTAL
- 620 - 1 K
- 621 - 220 pF
- 622 - 1 K

FIG. 12

FIGURE 12



FIG. 13



311 - 74HCT373
312 - 74HCT138
313 - 74HCT138

FIGURE 14

FIG 14

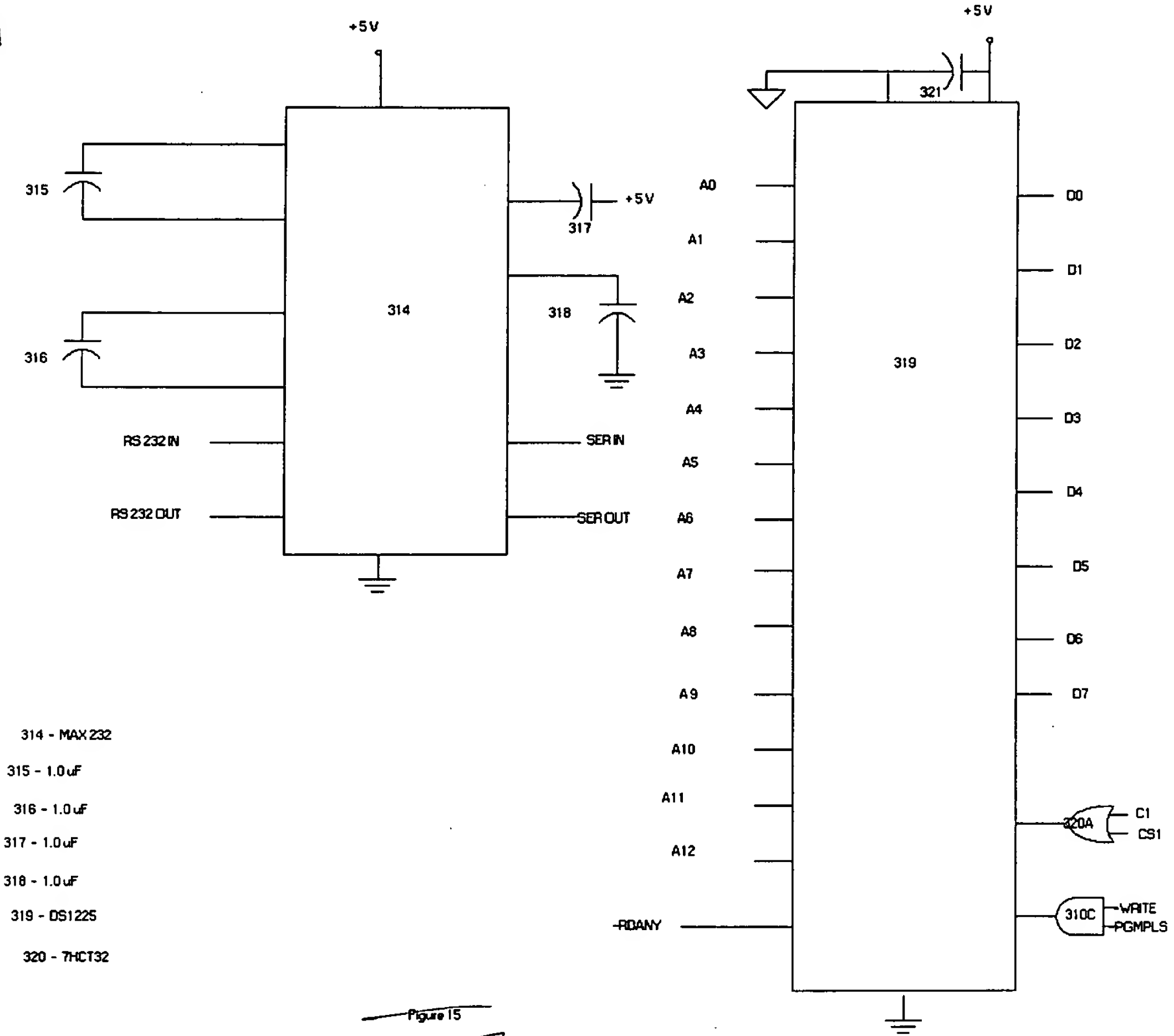
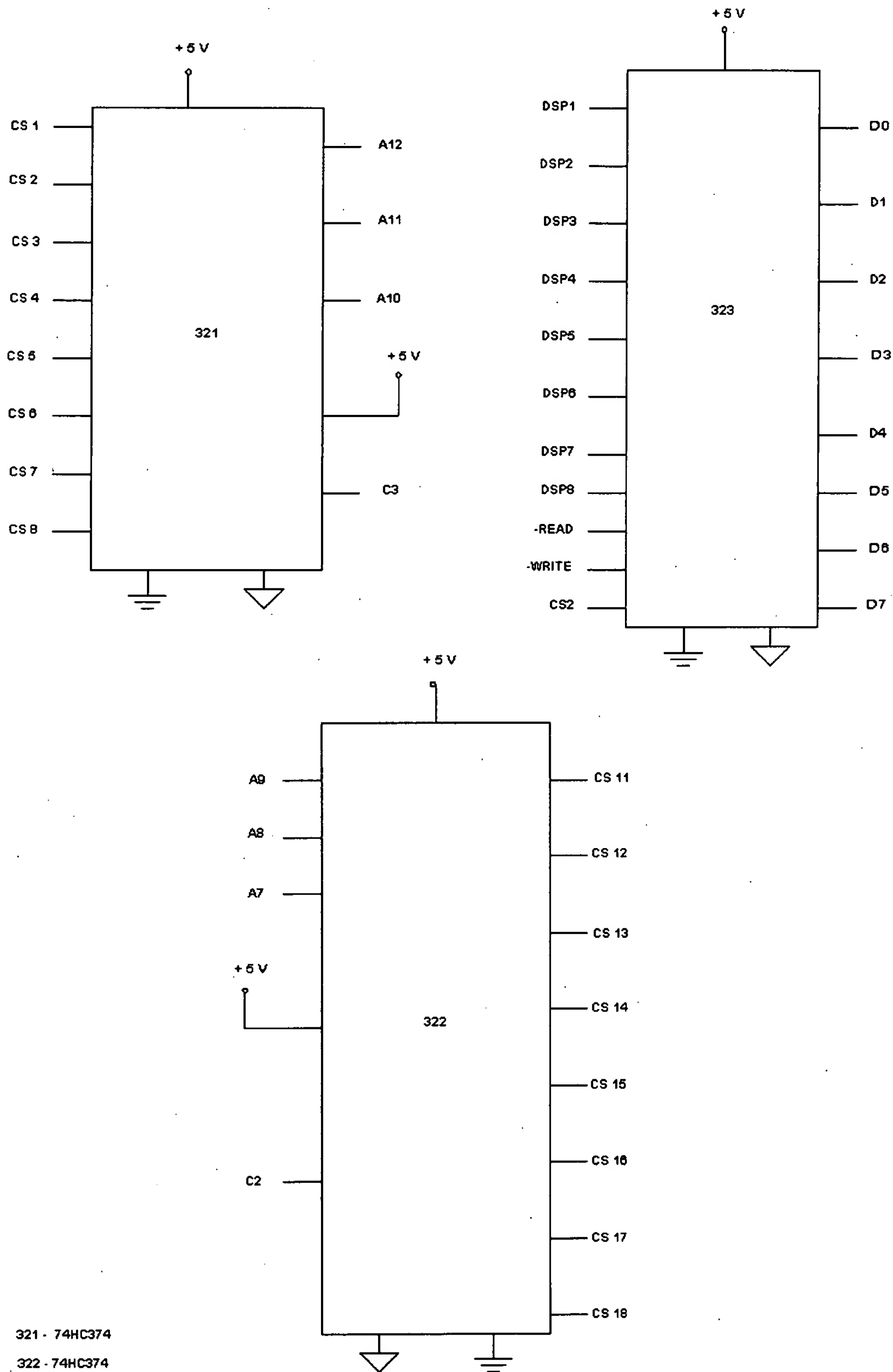


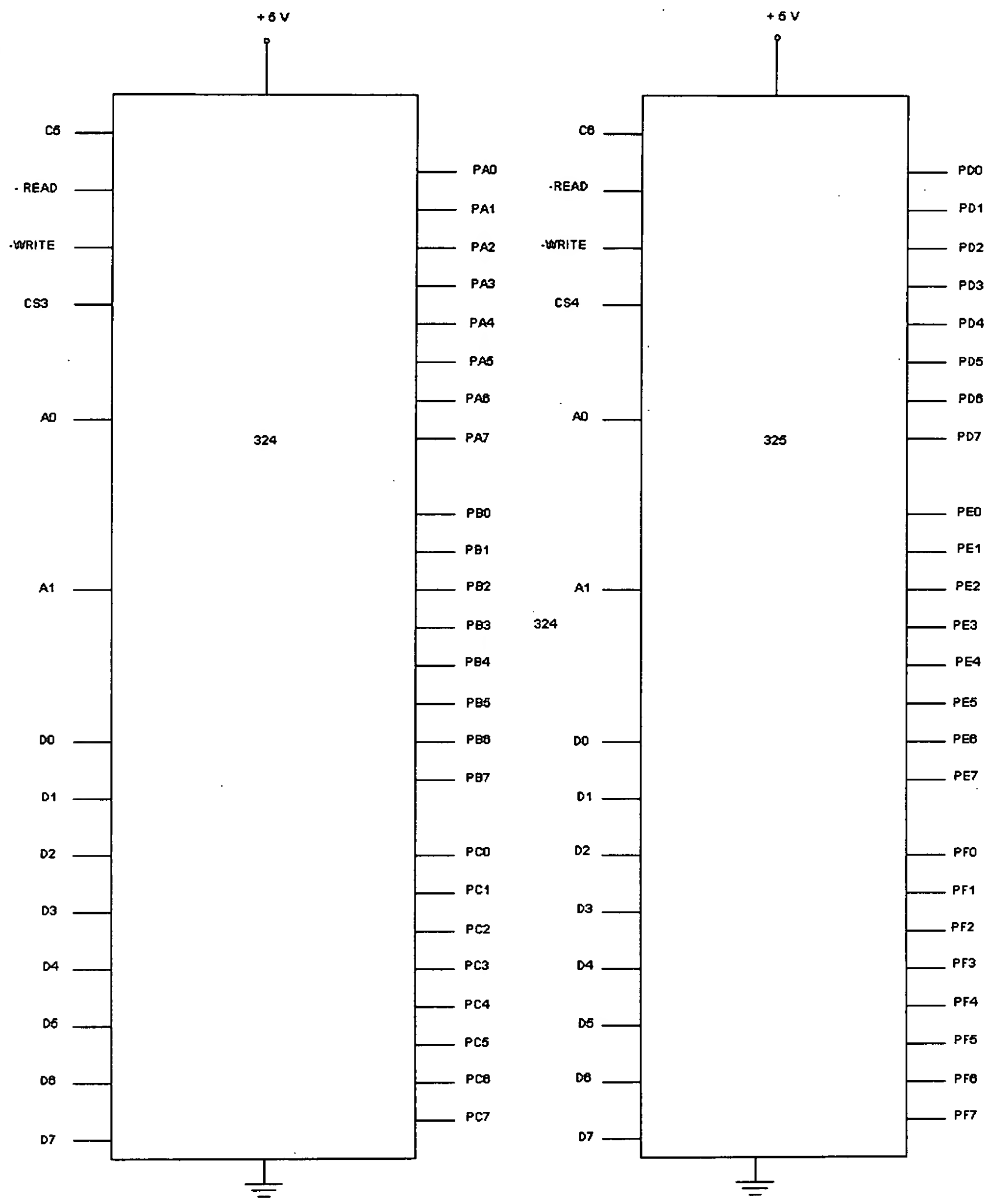
Figure 15

Fig 15



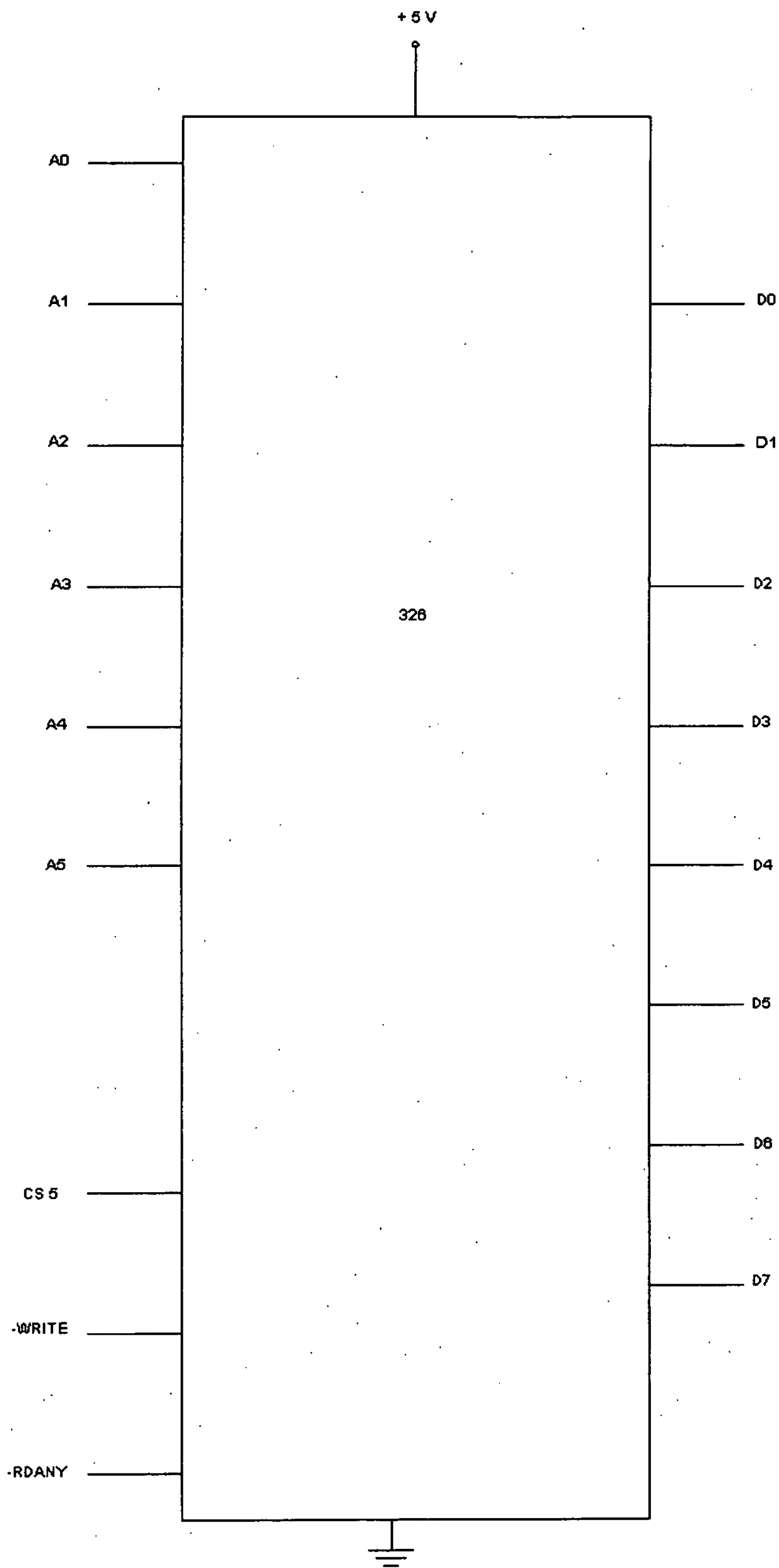
321 - 74HC374
 322 - 74HC374
 323 - ADC0848

FIGURE 16 *FIG. 16*



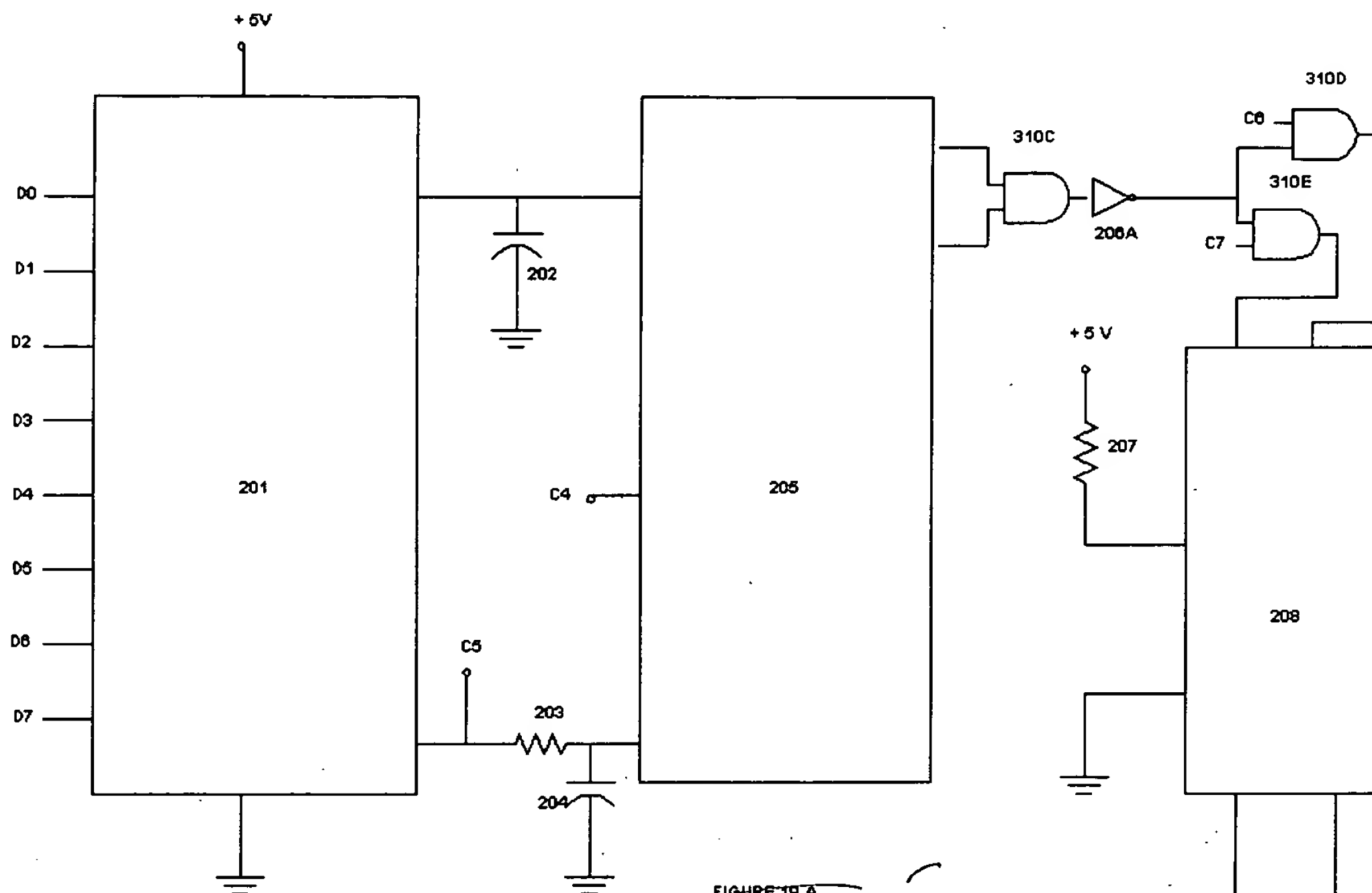
324 - 82C55
325 - 82C55

Figure 17 *Fig. 17*



328 - DS1286

Figure 18 *Fig. 18*



~~FIGURE 18 A~~

Fig. 196

-

~~FIGURE 18-B~~

Fig. 1915

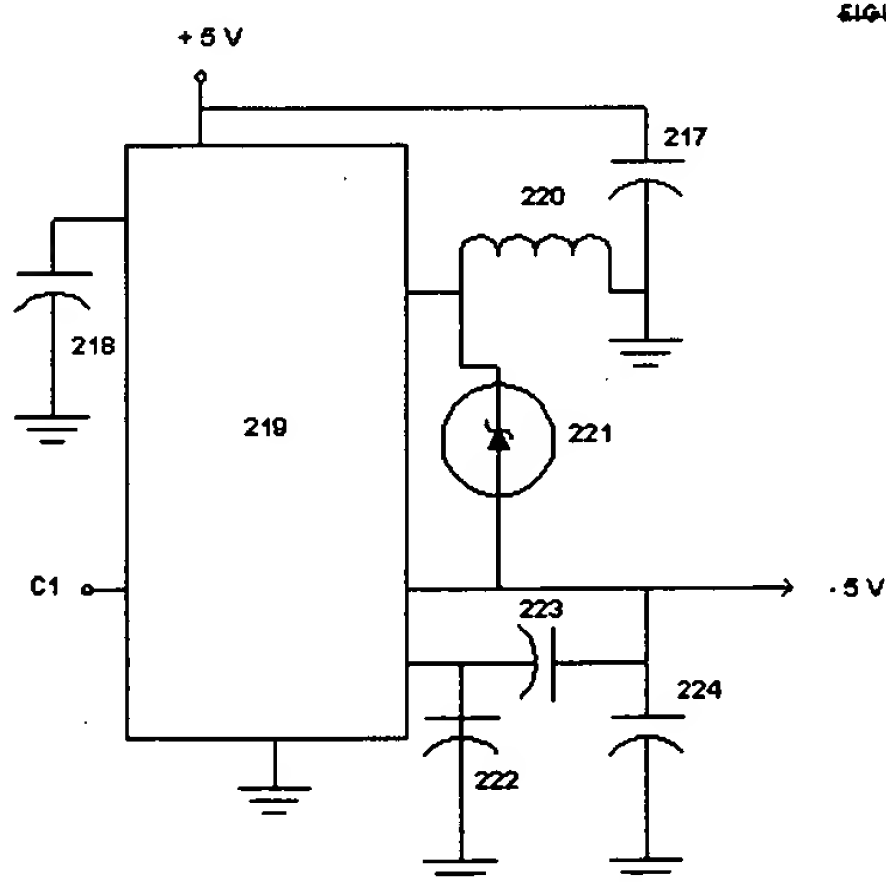
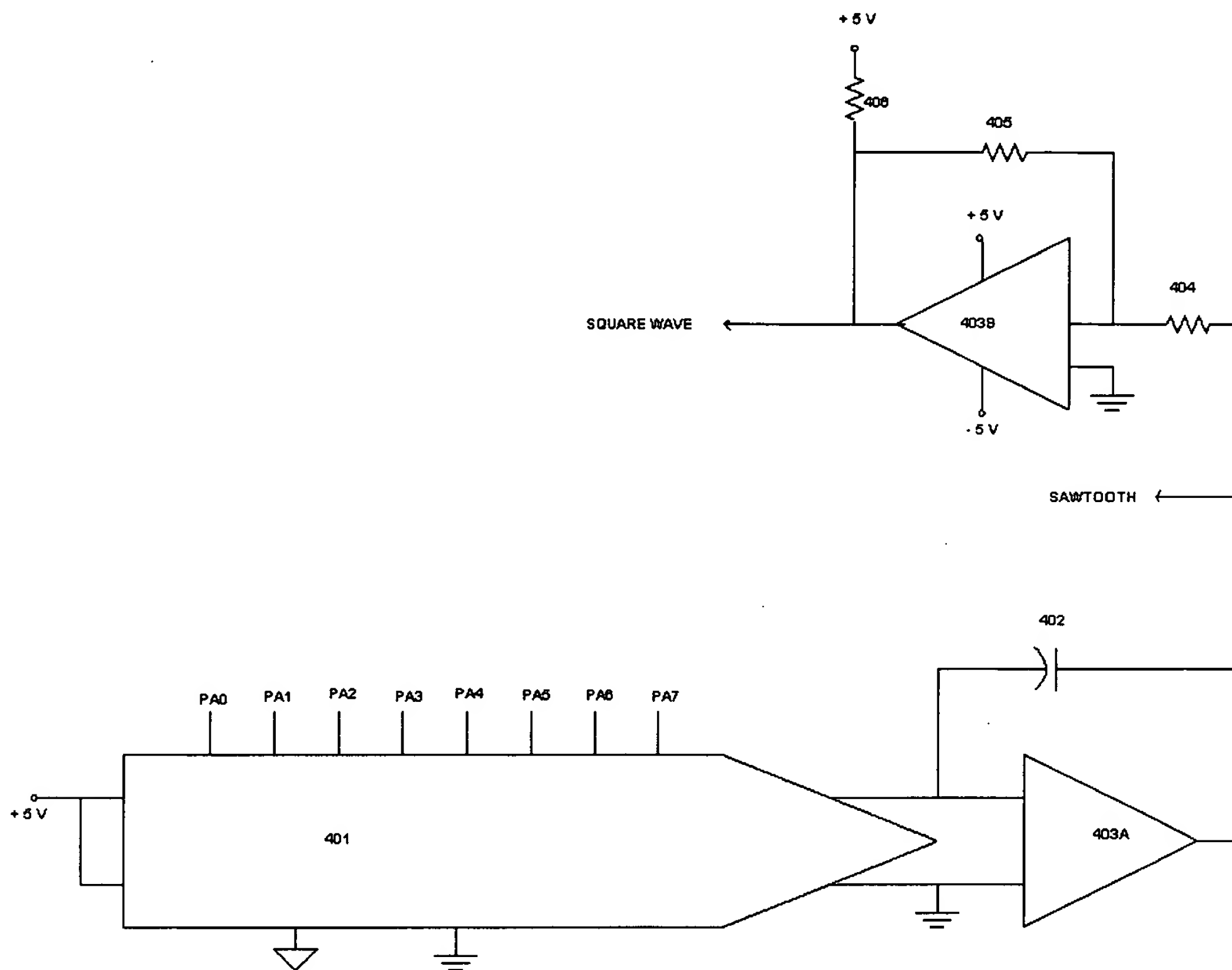


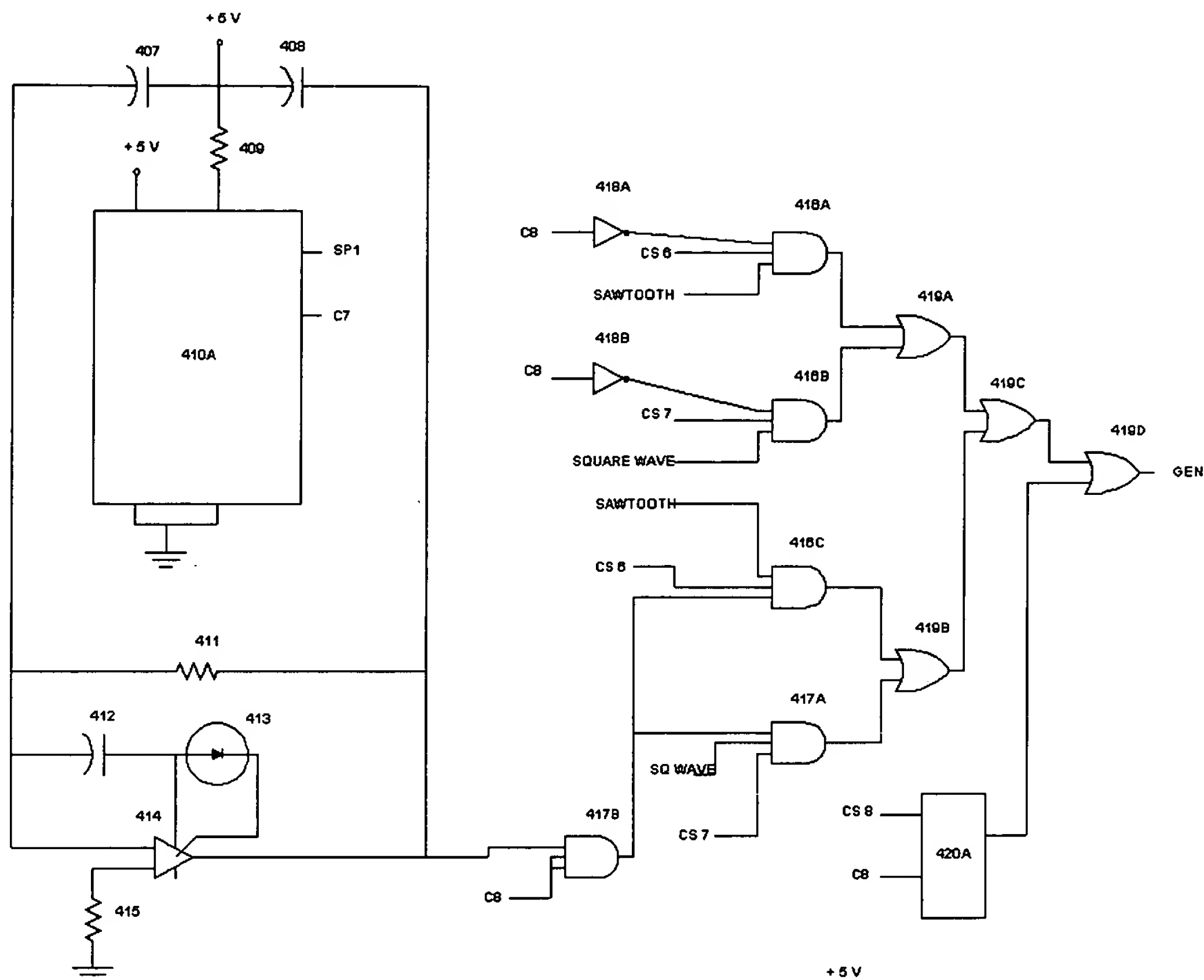
Figure 19.C

FIG 19c



- 401 - DAC0832
- 402 - 1.0 uF
- 403 - LM392
- 404 - 100K
- 405 - 300K
- 406 - 2K

Figure 20



- 407 - 22 pF
- 408 - 22 pF
- 409 - 50
- 410 - DS1803-050
- 411 - 330 K
- 412 - 150 pF
- 413 - 1N914
- 414 - LM101
- 415 - 200 K
- 416 - 74HC11
- 417 - 74HC11
- 418 - 74HCT04
- 419 - 74HCT32
- 420 - 74HCT02
- 421 - 74HC165

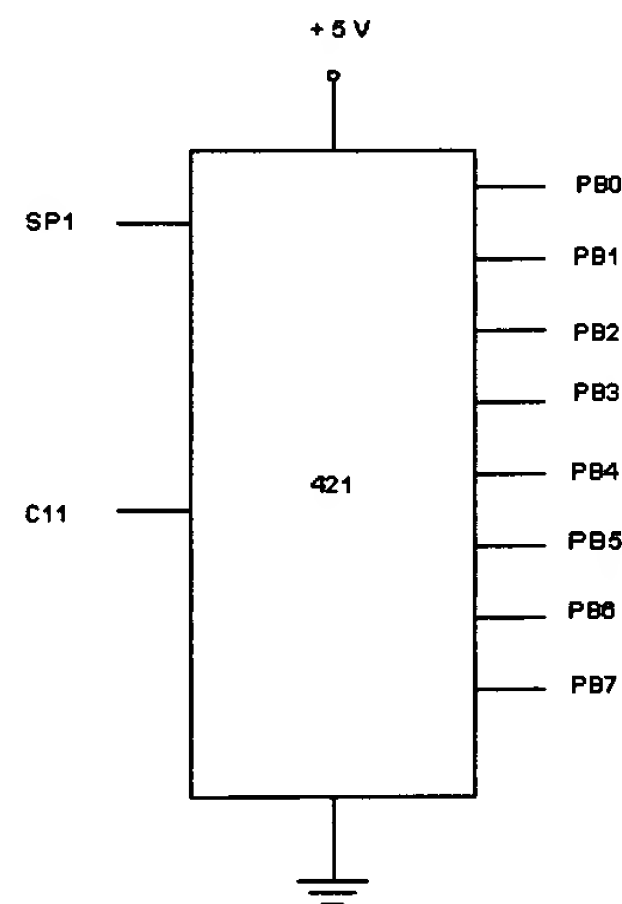


FIGURE 21- *FIG. 21*

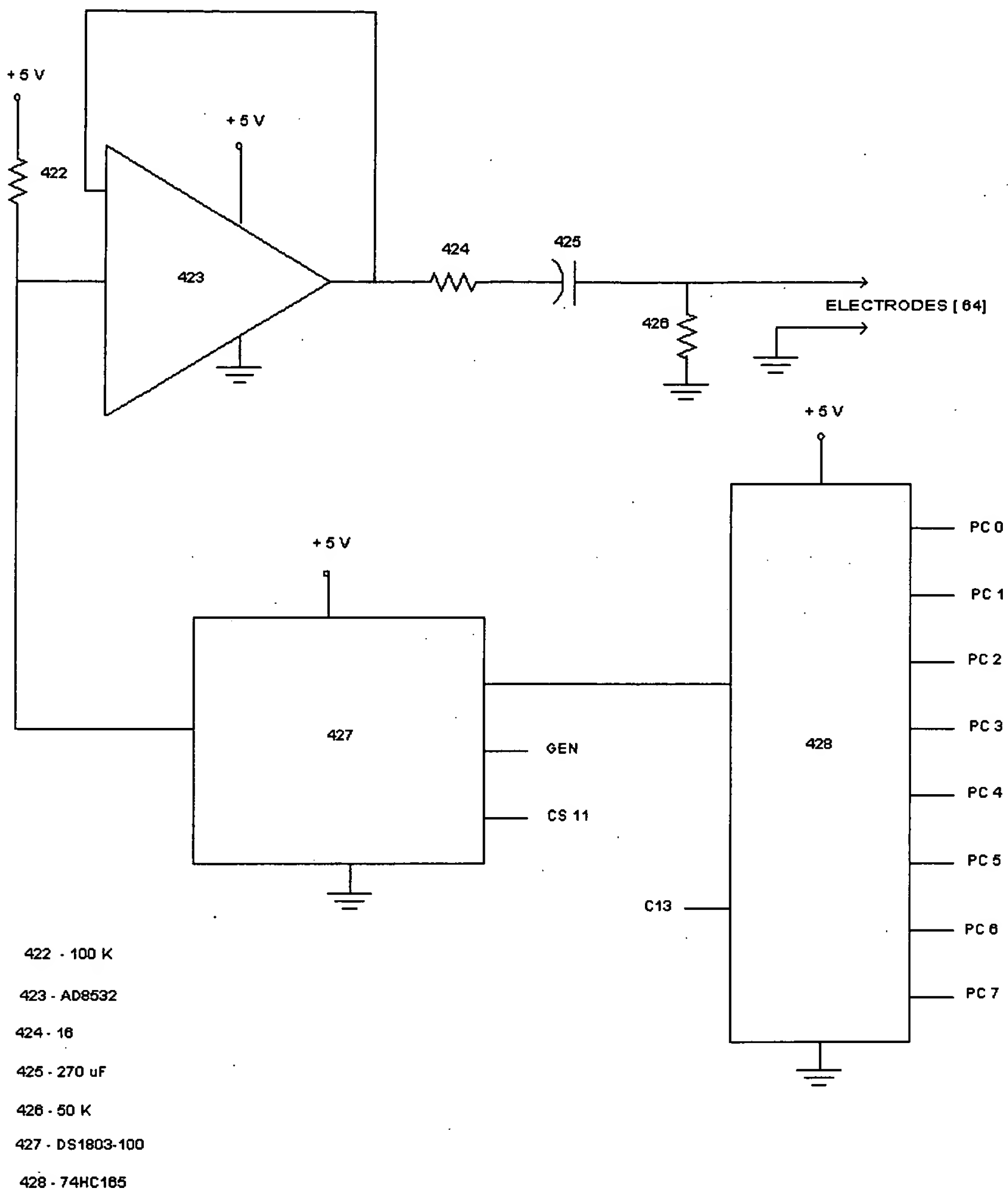
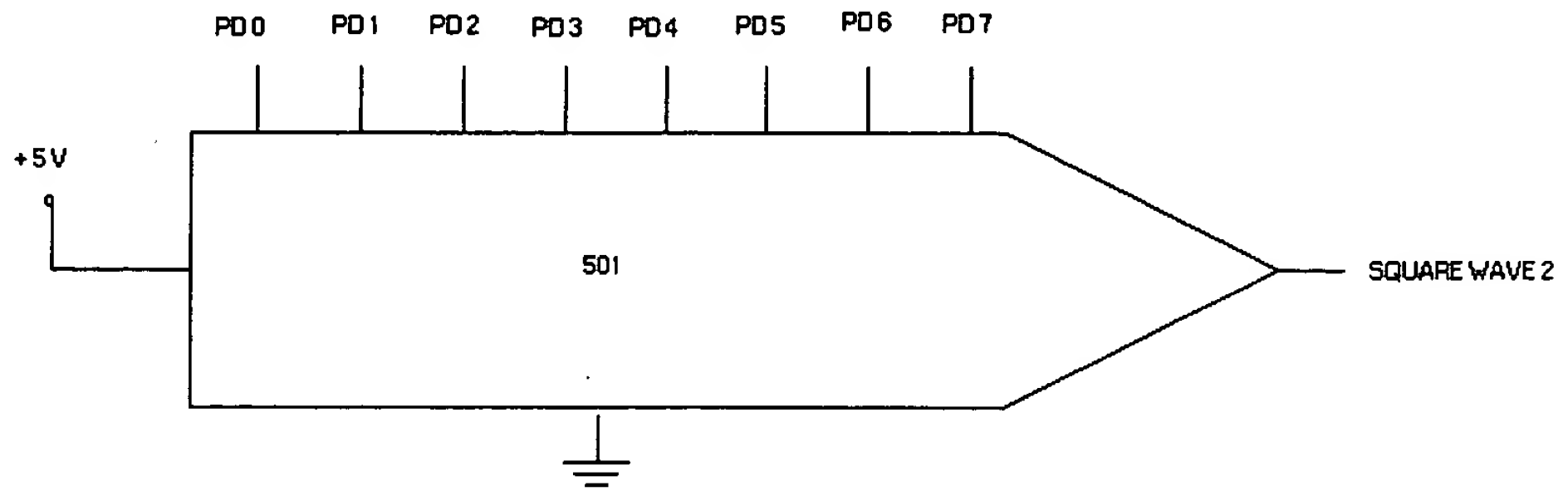


FIGURE 22

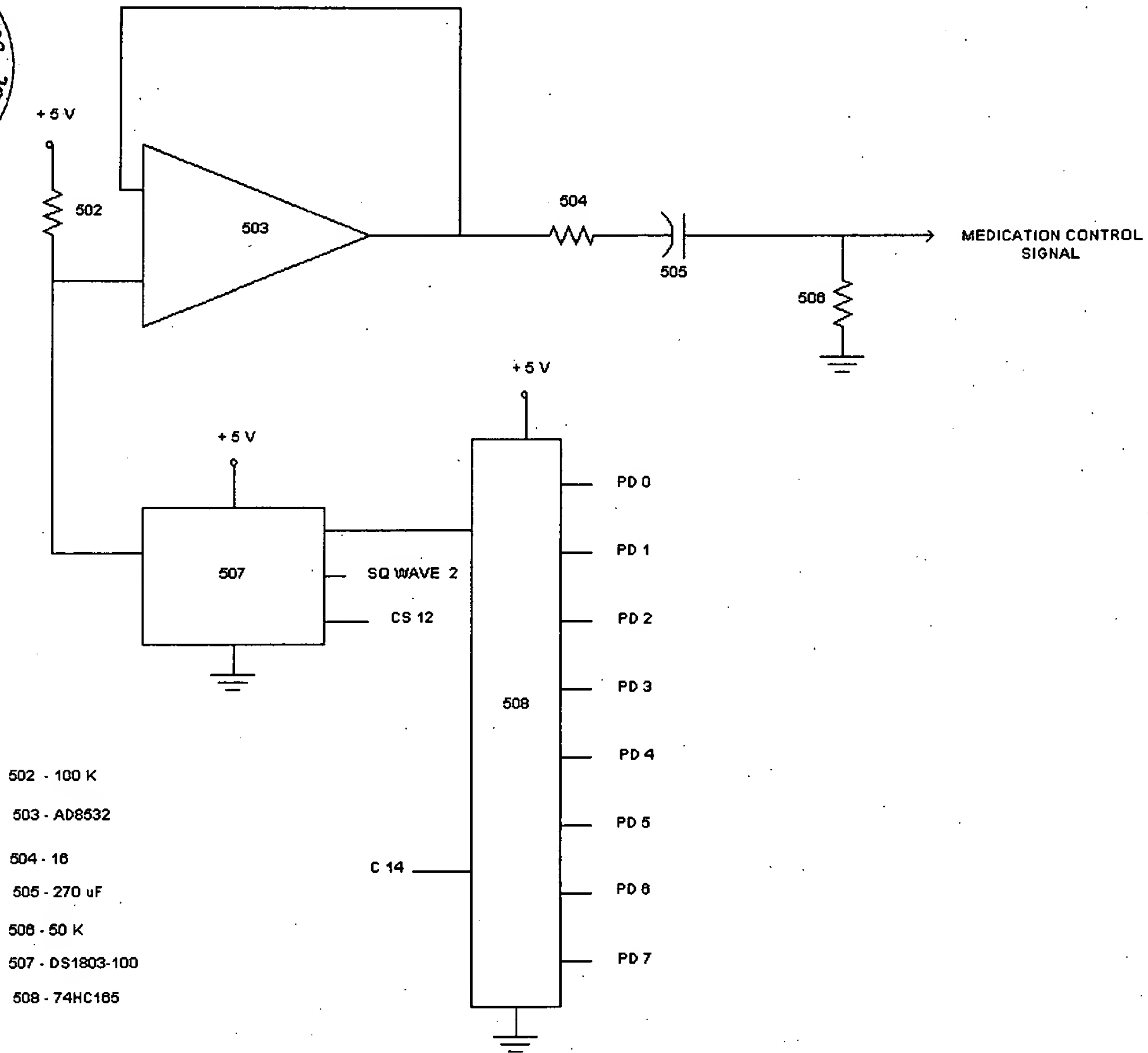
Fig. 22



501 - DAC0832

FIGURE 23

Fig 23



- 502 - 100 K
- 503 - AD8532
- 504 - 10
- 505 - 270 uF
- 506 - 50 K
- 507 - DS1803-100
- 508 - 74HC165

FIGURE 24

FIG 24

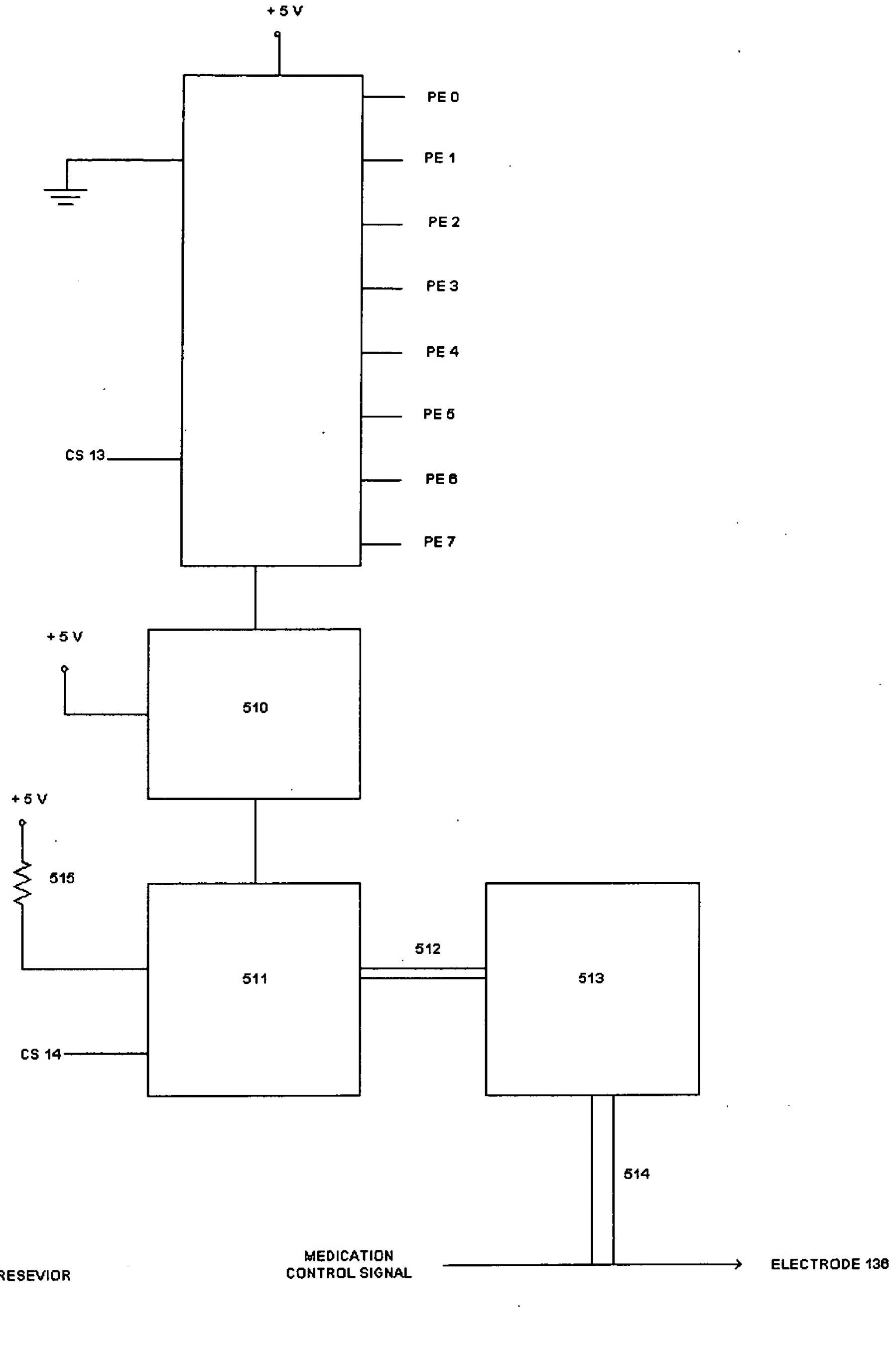


FIGURE 25

Fig. 25



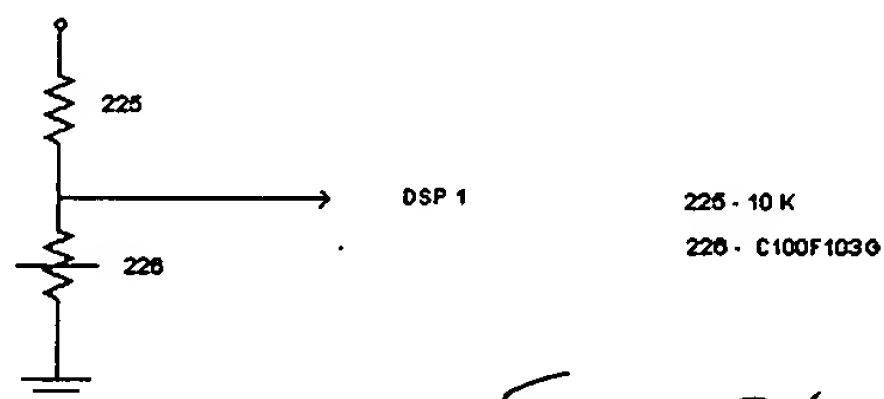


FIGURE 26 A *FIG. 26A*

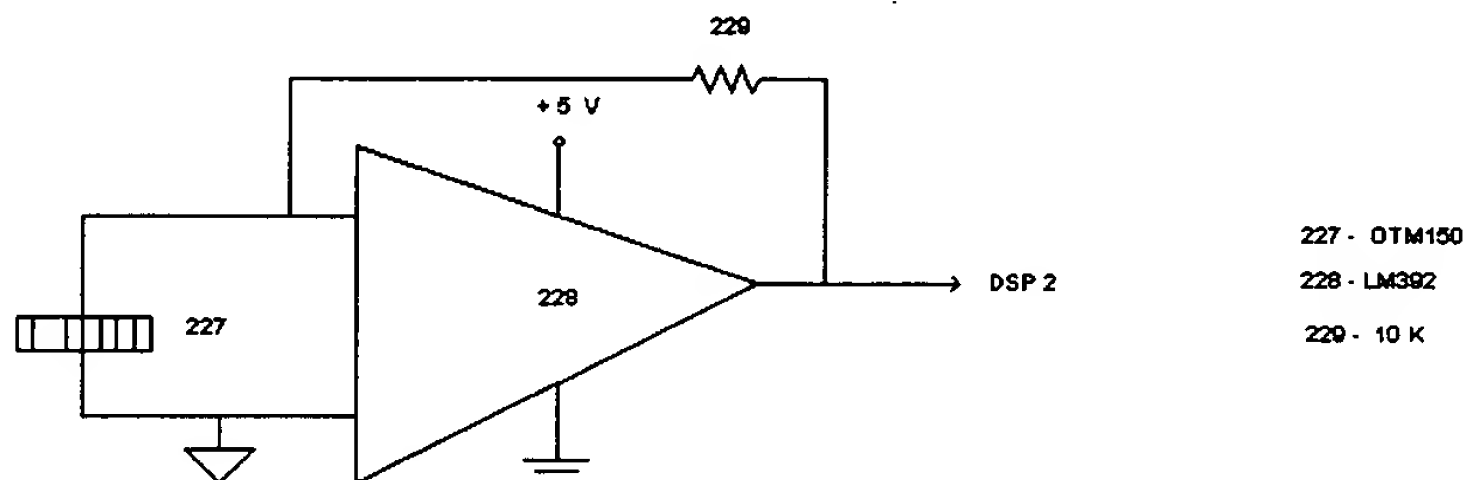


FIGURE 26 B *FIG. 26B*

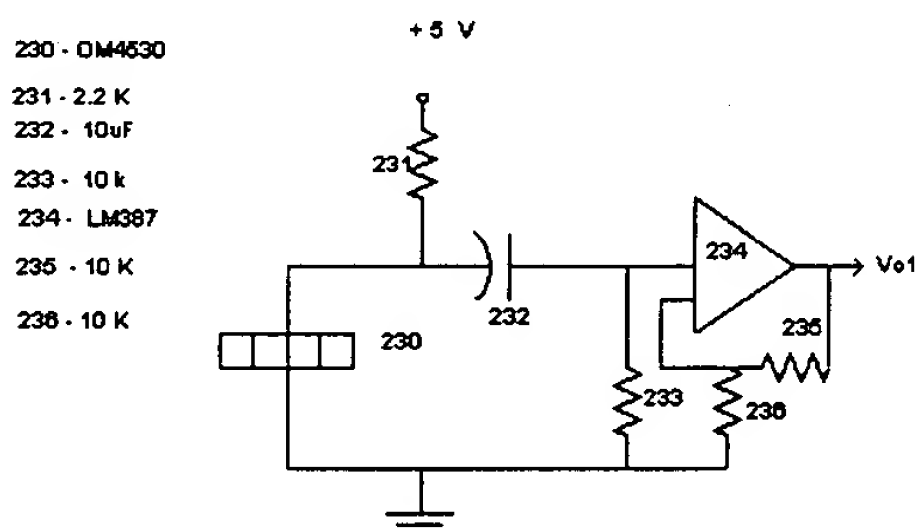


FIGURE 26 C *FIG. 26C*

227 - 0T150
228 - LM392
229 - 10 K
237 - 10 K
238 - 100 K
239 - 10 K
240 - 100 K
241 - LMF100

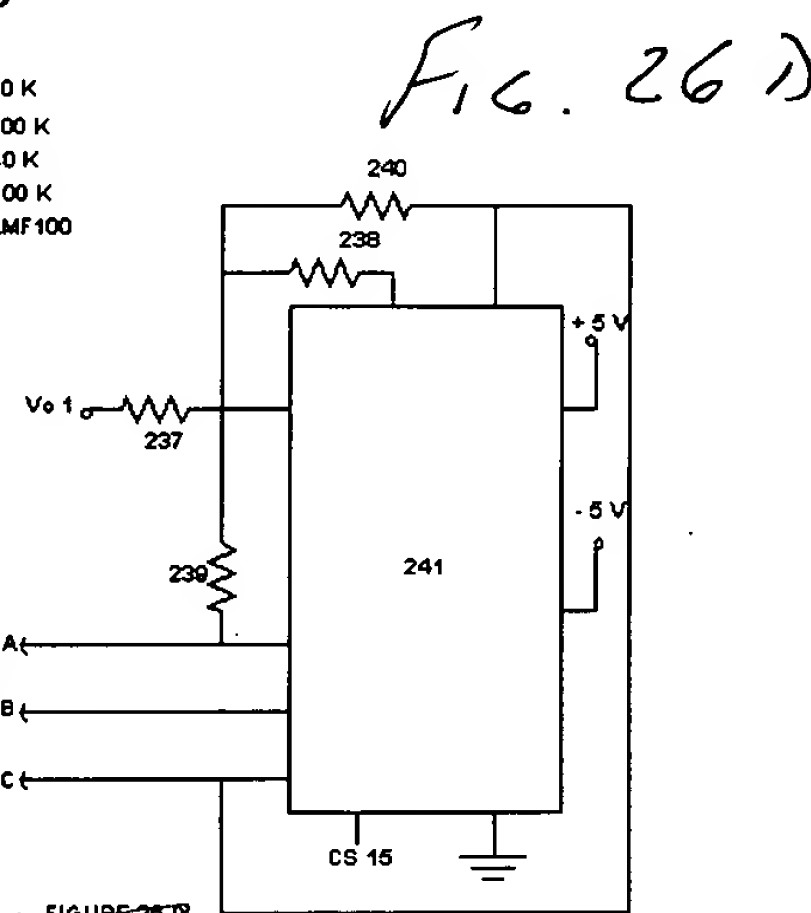


FIGURE 26 D

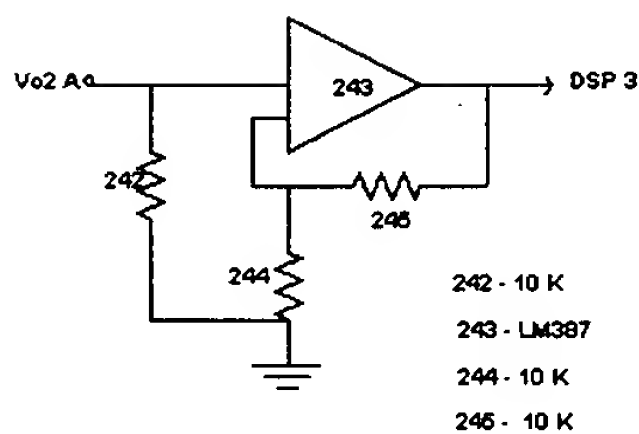


FIGURE 26 E *FIG. 26E*

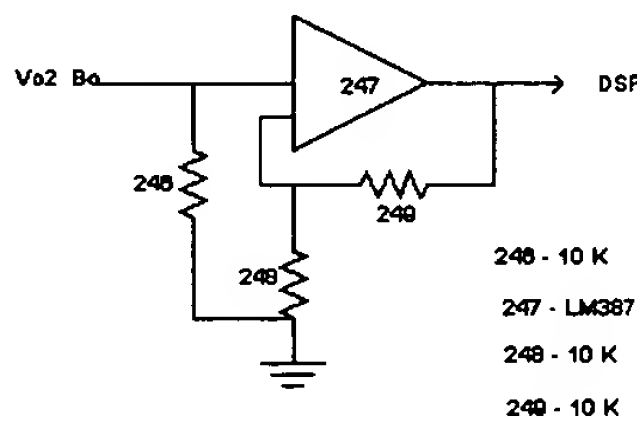


FIGURE 26 F *FIG. 26F*

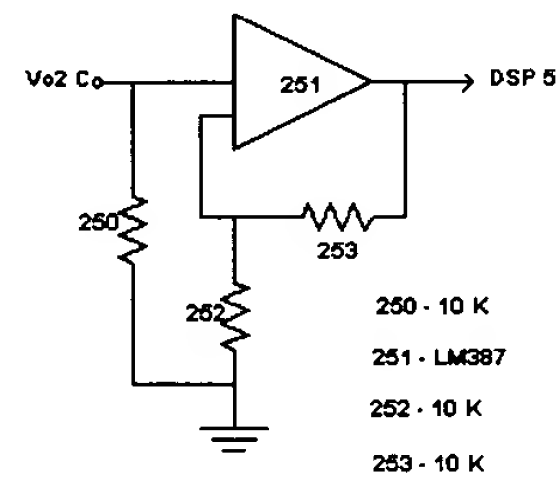


FIGURE 26 G *FIG. 26G*

242 - 10 K
243 - LM387
244 - 10 K
245 - 10 K
246 - 10 K
247 - LM387
248 - 10 K
249 - 10 K
250 - 10 K
251 - LM387
252 - 10 K
253 - 10 K

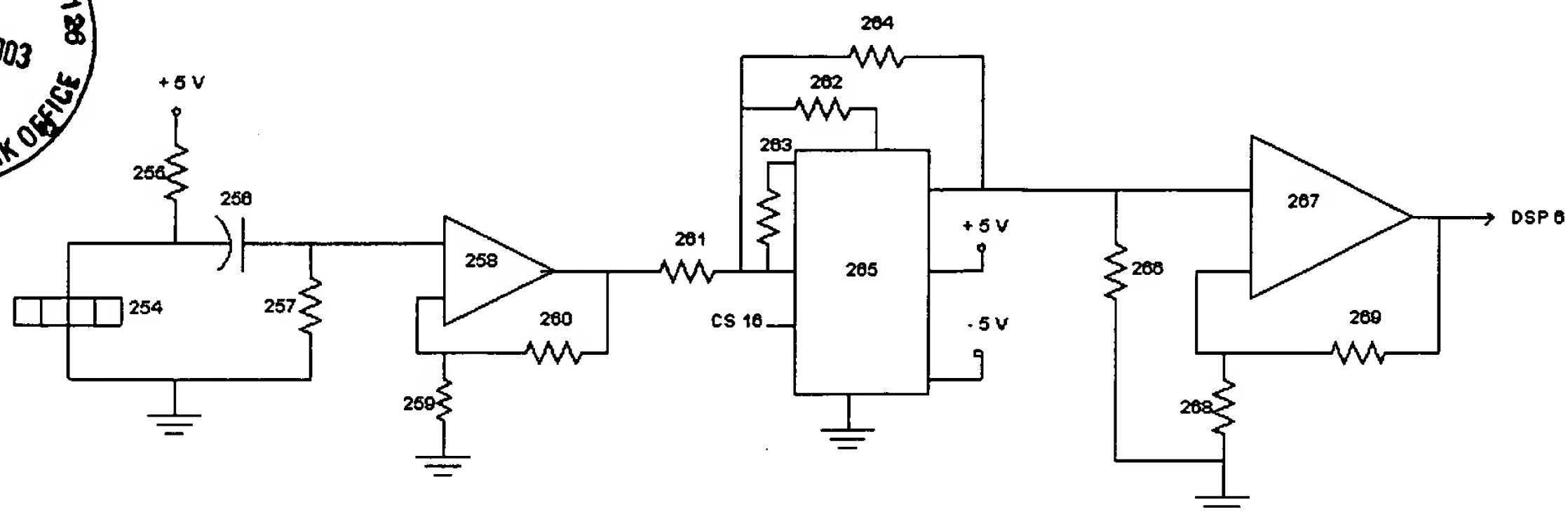


FIGURE 27 A *FIG 27A*

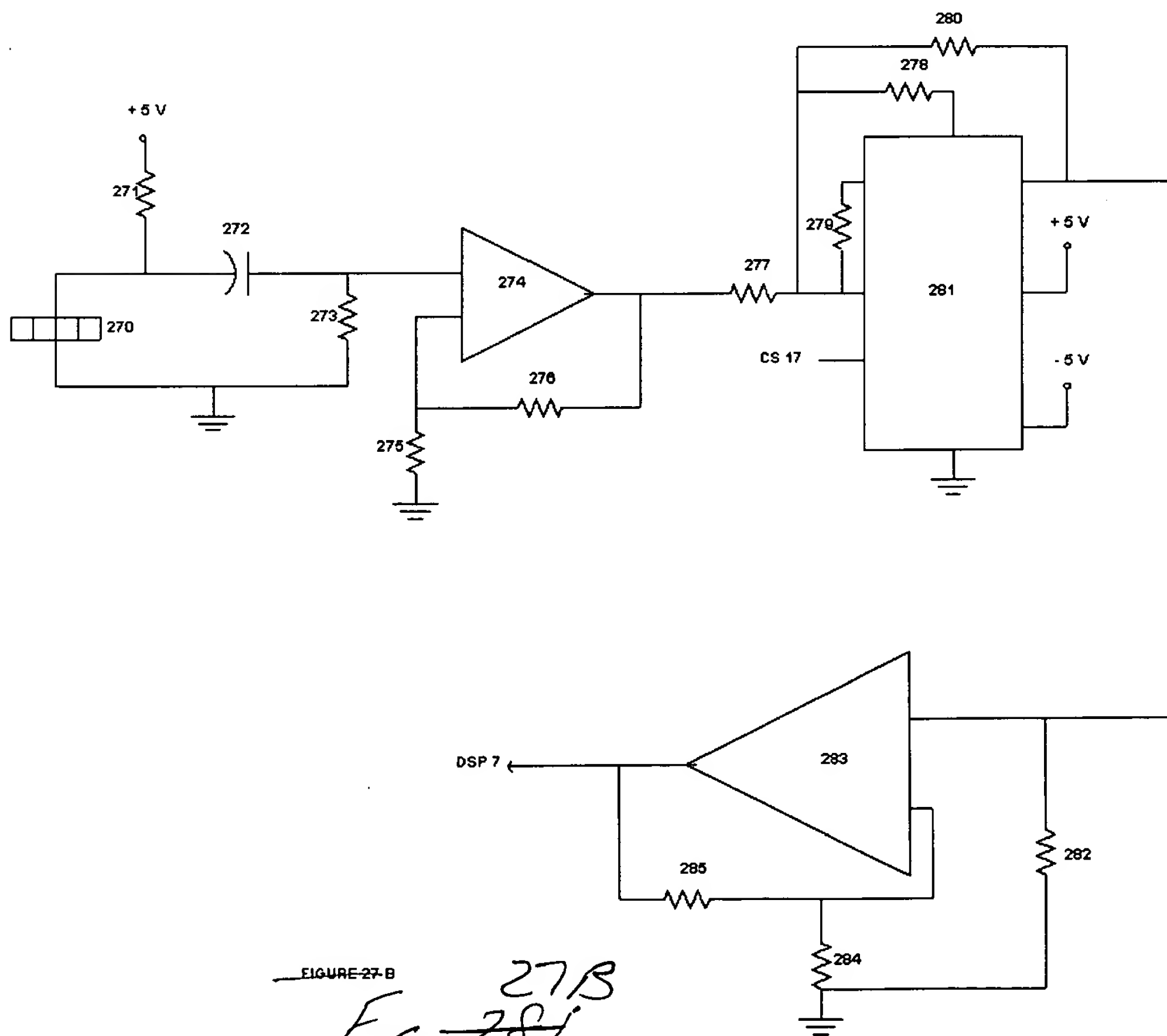


FIGURE 27 B *27B*
FIG 27B